

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF ILLINOIS
EASTERN DIVISION

CHARLES KRIK,

Plaintiff,

vs.

OWENS-ILLINOIS, INC. and
EXXON MOBIL OIL CORP.,

Defendants.

No. 10 C 7435

Chicago, Illinois
April 21, 2015
1:15 o'clock p.m.

APPFARANCES ·

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1 (Jury out. Proceedings heard in open court:)

2 THE CLERK: 10 C 7435, Krik versus Crane Company, et
3 al., jury trial.

4 THE COURT: Okay. Good afternoon. The jury is
5 willing to stick around a little bit later today, tomorrow, and
6 Thursday till about 5:00 o'clock. So if that's okay with the
7 parties, I'd like to take advantage of that time.

8 MR. McCOY: Sounds good.

9 THE COURT: Any housekeeping issues to take up?

10 MR. McCOY: Judge, I just want to make a brief
11 proffer of evidence on one point, which is the one day of
12 exposure evidence. Everything else I'll wait as it comes up.
13 But I'd like to proffer one day since you already ruled on that
14 one.

15 THE COURT: Okay. Go ahead.

16 MR. McCOY: We're on the record?

17 DR. ARTHUR LEONARD FRANK, M.D., PLAINTIFF'S WITNESS,

18 PREVIOUSLY SWORN

19 VOIR DIRE EXAMINATION

20 BY MR. McCOY:

21 Q. Dr. Frank, I wanted to ask, in terms of lung cancer, is
22 there evidence out there that a single day of exposure can --
23 to asbestos, can be the cause of lung cancer?

24 A. Yes, in animal studies.

25 Q. Can you just explain to us where that comes from, the

1 studies?

2 A. The study by Wagner in 1974, the British Journal of Cancer,
3 he had animals exposed to varying periods of asbestos. The
4 shortest period was one day, and some of the animals developed
5 lung cancer with only one day of exposure. With greater
6 exposures, as per you would expect with a dose-response
7 relationship, more animals got lung cancer with increasing
8 amounts of exposure.

9 Q. Was this study published?

10 A. It was published in the British Journal of Cancer, a
11 peer-reviewed journal.

12 Q. Approximately when did you say it was?

13 A. 1974.

14 Q. Is that data and that study something that you consider
15 reliable?

16 A. Yes.

17 Q. Is that data something that others in your field have also
18 considered reliable?

19 A. Yes.

20 MR. McCOY: Judge, I would proffer that testimony on
21 the issue of causation as to how much dose it would take to
22 cause lung cancer. And I also would add that the defense has
23 introduced animal studies through the deposition you just
24 heard, and their position is there is a safe level, and this
25 evidence also not only relates to the dose and causation but

1 would relate to the question of whether there is a safe level.

2 THE COURT: Is there any inquiry that the defendants
3 want to do with respect to the 1974 study with the witness?

4 MR. CASMERE: Does the Court want us to?

5 THE COURT: I'm giving you an opportunity to inquire
6 based on the evidentiary proffer of the witness's testimony,
7 which is limited to the existence of the Wagner study in 1974.

8 VOIR DIRE EXAMINATION

9 BY MR. CASMERE:

10 Q. That was in rats.

11 A. Yes. They're animals.

12 Q. Three rats.

13 A. Two rats.

14 Q. Two rats. And out of dozens that were exposed for one day,
15 right?

16 A. There was -- I forgot the exact number, but there were no
17 lung cancers in the control group. So animals with no exposure
18 got no lung cancers, two with one day got it, and the numbers
19 went up with increasing amounts of exposure.

20 Q. Was this a strain of Wistar rats?

21 A. Well, I honestly don't remember what strain of rats they
22 used. The usual strains are either Wistar rats or F3 44.
23 Those are the ones that are generally used in laboratories.

24 Q. Is this a strain that's known to be susceptible to getting
25 cancer?

1 A. Not particularly, no.

2 Q. Is there a strain of Wistar rats that's known to get -- is
3 susceptible to getting cancer?

4 A. Not that I'm aware of, but I don't know the rat veterinary
5 literature that well. But again, no animals in the control
6 group -- if they were susceptible, none of the animals in the
7 control group, and there were a couple hundred, I think, got
8 lung cancer.

9 MR. CASMERE: Thanks.

10 THE WITNESS: You're welcome.

11 MR. BLACKWELL: No questions from Owens.

12 THE COURT: Any argument that the defendants want to
13 make in response to the evidentiary proffer that we've just
14 heard?

15 MR. CASMERE: Not with Dr. Frank standing here.

16 THE COURT: Well, Dr. Frank, why don't you step
17 outside for a minute.

18 THE WITNESS: Yes, sir.

19 MR. CASMERE: Sorry, Dr. Frank.

20 (Witness exits courtroom.)

21 MR. CASMERE: First as to the point that Mr. McCoy
22 raised about the animal studies that were brought up during
23 Mr. Hazard's deposition, he has a claim that my client didn't
24 investigate its product before we produced it. And that's
25 obviously not true.

1 That study, it will become obvious later, was
2 published, and there was no cancer found in those animals.
3 That's apples and oranges in terms of what's going on here.

4 What's going on here is now there's two rats in an
5 experiment in 1974 some doctor was able to produce lung cancer
6 for one day of exposure. It's not relevant to humans. There
7 is no testimony that that's convertible to a human being's
8 exposure. If this were a case of lung cancer in rats maybe it
9 would be relevant, but it's not.

10 MR. BLACKWELL: Your Honor, there is no testimony
11 that the rat study that was referred to was even meant to
12 simulate human exposures, much less workplace exposures.

13 And beyond that, this whole line of a single day and
14 so on, it just gets us right back around to the same point
15 where he's trying to accumulate exposures to be able to say
16 they all add up, one by one, every exposure, etcetera.

17 And for that matter also, to the extent that the
18 doctor is now espousing opinions based upon rat studies, he
19 didn't do so in his report and he didn't do so at his
20 deposition. So this is new.

21 MR. McCOY: Judge, that obviously was not an opinion,
22 that's what's published in the literature.

23 And I would also comment that Owens-Illinois in their
24 testimony of Mr. Hazard and his -- as I understand their
25 position in this case based on that is that there is a safe

1 level. I mean, that that level was one that would protect
2 everybody from getting any disease, including lung cancer, and
3 that's why there is no warning on their boxes.

4 THE COURT: That's not what the Hazard testimony was.
5 But I'm going to overrule the defendants' objection to this
6 limited testimony; that Dr. Frank can say that there exists a
7 1974 study that made this finding.

8 So with that, can we resume the testimony with the
9 jury in the box?

10 MR. McCOY: Yes.

11 THE COURT: Okay.

12 MR. McCOY: Just give me about two minutes to get
13 everything in order and I'll be ready to go.

14 THE COURT: Okay, I'll give you two minutes. I think
15 the jury is lined up outside, so let's try and get this
16 together.

17 MR. McCOY: As long as it takes to get Dr. Frank in
18 here. I don't want him coming in late.

19 (Witness enters courtroom.)

20 MR. McCOY: I'm just clarifying with Dr. Frank the
21 limited testimony he just gave can be admitted, but the every
22 exposure is still off limits.

23 THE COURT: Correct.

24 MR. McCOY: Okay.

25 THE COURT: You can have a seat while Mr. McCoy gets

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1 ready for everybody else.

2 MR. McCOY: I'm set now, Judge.

3 THE COURT: Okay. Let's bring in the jury.

4 (Jury in.)

5 THE COURT: Good afternoon. Please be seated.

6 Members of the jury, good afternoon. We'll resume
7 with Dr. Frank's testimony.

8 And I understand that you are able to stay a little
9 bit past 4:30 today, and I do appreciate that. I appreciate
10 your attention, close attention to the case.

11 And before I forget, Ms. Lloyd, I did receive your
12 note as well. It's taken under advisement. Hang in there with
13 us as we continue the trial.

14 And one other housekeeping matter to let you all know
15 is that on Friday we will be ending early. We'll be ending
16 early on Friday, around 3:15 or so. So that's in part why I'm
17 looking for any opportunity I can to make up some time, but I
18 appreciate your patience, and we can resume with Dr. Frank's
19 testimony.

20 DR. ARTHUR LEONARD FRANK, M.D., PLAINTIFF'S WITNESS,

21 PREVIOUSLY SWORN

22 DIRECT EXAMINATION (Resumed)

23 BY MR. McCOY:

24 Q. Dr. Frank, did you have a chance to look at some of
25 Mr. Krik's medical records?

1 A. I did.

2 Q. These are the ones from the hospitals and doctors that he
3 saw, right?

4 A. Yes, sir.

5 Q. I worked with you to come up with a selection for the jury,
6 and I'm just going to go through that selection here one by
7 one.

8 A. Yes, sir.

9 Q. I'm going to use this Elmo over here to do it.

10 First I'll -- and by the way, you do have an
11 understanding of Mr. Krik's smoking history, right?

12 A. I do.

13 Q. Approximately from 1952 through 1982?

14 A. Yes. He smoked different amounts at different periods and
15 had a three-year period where he didn't smoke.

16 Q. You understand that for at least from sometime after he got
17 in the Navy in '54 he started smoking for some period of time a
18 pack and a half a day?

19 A. Yes, sir.

20 Q. And you also had an opportunity then to get an
21 understanding of his history of asbestos exposure, right?

22 A. I did.

23 Q. And you understood that to include starting sometime in
24 1954 in the Navy?

25 A. Yes, sir.

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1 Q. Continuing to approximately the same time he quit smoking
2 in '82?

3 A. Yes, sir.

4 Q. So the first record -- and please tell me if I'm going too
5 fast. I'm trying to move this along quickly for the jury by --

6 A. Certainly.

7 Q. -- focusing on things here, but let me know.

8 So this record here -- so this is one from his
9 treating physicians. Can you -- this would be -- it says:
10 "Chest, two views."

11 What's that?

12 A. It's a chest X-ray, back-to-front view, and a side view as
13 well.

14 THE COURT: So for purposes of the record, Mr. McCoy,
15 is there an exhibit number on this, and is there any objection
16 to these records being admitted?

17 MR. CASMERE: No, Your Honor.

18 THE COURT: Okay.

19 MR. CASMERE: Are we going to do them one by one?

20 THE COURT: If you've seen them all, then you can --

21 MR. CASMERE: The ones he's shown we have no
22 objection.

23 THE COURT: And just for the record, what exhibit
24 number are we going to refer to?

25 MR. McCOY: This is Exhibit No. 5, this first

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1 document.

2 THE COURT: It's admitted.

3 BY MR. McCOY:

4 Q. This is a chest X-ray from 2003 here?

5 A. Yes, sir.

6 Q. So I've highlighted a part in here, please explain anything
7 further that hasn't been highlighted, the part I highlighted
8 says: "Emphysematous changes of both lungs are seen."

9 What's the significance of that in the context of
10 Mr. Krik's case here?

11 A. Emphysema is one of the diseases of the lungs that's not
12 cancer. The most common cause for it is cigarette smoking, but
13 there are also other reasons that will give you emphysematous
14 changes, which means a breakdown of lung tissue. And in
15 addition to his smoking Mr. Krik has a history as part of his
16 work being a welder, studied welding, and welding on a regular
17 basis. That also can cause this as well.

18 Q. What is it about welding: The fumes that it generates?

19 A. Yes, the welding fumes.

20 Q. Anything else on this one?

21 A. No, sir.

22 Q. Okay. The next one is Exhibit No. 4, and this one is from
23 the Department of Radiology at Palos Community Hospital. What
24 type of imaging was this one?

25 A. This was also a chest X-ray, two views.

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1 Q. And this one is, looks like -- I don't have my glasses.
2 I'll get them.

3 This is September of 2004, right?

4 A. September 21st, 2004, and the highlighted areas state:
5 "Minimal pleural thickening laterally/bilaterally seen, which
6 could be secondary to asbestos exposure."

7 Q. Let's stop at that one for a second.

8 What's the significance of that in terms of your
9 assessment of Mr. Krik?

10 A. This is the kind of change that you see almost exclusively
11 with exposure to asbestos. Cigarette smoking will not cause
12 pleural thickening.

13 And the reason that this is extraordinarily likely to
14 be related to asbestos, there are other causes of thickening of
15 the pleura, but they're usually on one side, and it's only with
16 asbestos that you would get it on both sides.

17 Q. Does this pleural thickening happen overnight?

18 A. No.

19 Q. Or is this something that develops over time?

20 A. It develops over time. It can take literally decades to
21 appear.

22 Q. It's the same latency concept you talked about?

23 A. Exactly.

24 THE COURT: May I ask a question, Doctor?

25 THE WITNESS: Certainly.

1 THE COURT: Just to make sure I'm thinking about this
2 the right way.

3 The pleural thickening, that would not be cancer, is
4 that right?

5 THE WITNESS: That is correct. As I mentioned to the
6 jury this morning, there are nonmalignant, noncancerous
7 changes, scarring, and pleural thickening is another expression
8 of scarring.

9 THE COURT: Thank you.

10 BY MR. McCOY:

11 Q. Is it fair to say these are like markers or evidence of
12 asbestos exposure?

13 A. Very much so, yes. And a considerable amount of exposure.

14 Q. Okay. Next one we've got highlighted says: "Linear
15 fibrotic strands in the lung bases."

16 What's the significance of that one?

17 A. From just that description it is unclear. One of the
18 possibilities is that it could be --

19 MR. CASMERE: I'm going to object, Your Honor. It's
20 speculation. He said it's unclear. Now we're speculating.

21 THE COURT: Objection sustained.

22 Doctor, I think the easiest thing would be to just
23 tell us what those words mean and --

24 THE WITNESS: Linear fibrotic strands means what
25 appears to be scar tissue at the base of the lung, on both

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1 sides in this case.

2 BY MR. McCOY:

3 Q. And based on what you know about Mr. Krik, what do you --
4 do you have anything that you would attribute that to?

5 MR. CASMERE: Objection, Your Honor. Foundation.
6 Causation.

7 THE COURT: Overruled.

8 BY THE WITNESS:

9 A. The likely explanation in Mr. Krik's case is his prior
10 exposure to asbestos.

11 BY MR. McCOY:

12 Q. Does smoking cause this kind of linear fibrotic strands?

13 A. No.

14 Q. And the next statement is: "Chronic obstructive pulmonary
15 disease." That's smoking-related?

16 A. Yes. That's another term for the emphysematous changes we
17 saw in the previous X-ray report.

18 Q. Is it fair to say then that this document, Exhibit 4, from
19 2004, which is four years before the lung cancer diagnosis,
20 shows markers of both asbestos exposure and cigarette smoking?

21 A. That is a fair statement.

22 Q. The next document is Exhibit No. 153. This one is from
23 Morris Hospital, and it's -- let me find the date. You can
24 find it faster than me. Page 2.

25 A. 3/5/08.

1 Q. So now we're talking about March of 2008?

2 A. Correct.

3 Q. In here they find -- I've highlighted this statement here:
4 "There is a spiculated noncalcified 1.5 centimeter posterior
5 lateral left lower lobe lung nodule less than one centimeter
6 from the overlying pleural surface. This is worrisome for a
7 primary lung malignancy."

8 What's the medical -- the layperson's explanation of
9 that?

10 A. Simply put, this looks like a lung cancer to the
11 radiologist.

12 Q. And that's like one centimeter, a small tumor?

13 A. Yes.

14 Q. Okay. They haven't diagnosed it yet, but --

15 A. No. That's why it says it's worrisome. The radiologist
16 can't diagnose it completely on the X-ray, but that's his
17 strong suspicion.

18 Q. And this was, it says, a CT scan --

19 A. Correct.

20 Q. -- of the chest, right?

21 A. Yes.

22 Q. That's different than X-rays?

23 A. It's a different kind of radiologic procedure. It gives
24 you more of a three-dimensional view of the chest, not just a
25 static view of the chest X-ray.

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1 Q. So moving forward from that March 2008, the next document
2 we picked out here was -- this one is November 12, 2008, and it
3 says: "Rad chest."

4 What's that? Is that an X-ray?

5 A. Radiology, chest X-ray, two views again, the standard two
6 views.

7 Q. This one is November 2008, so about eight months after the
8 last one, and the part I've highlighted says: "There is a
9 linear area of increased parenchymal density in the right mid
10 lung and in the left base which has the appearance for areas of
11 discoid atelectasis or scarring."

12 So again, this is Exhibit 167. I would ask you to
13 give us a layperson's explanation on that.

14 A. This is where the radiologist is looking at the X-ray,
15 seeing changes at the lung bases, which is the common area for
16 asbestosis, and is not able to discern if it is a condition
17 called discoid atelectasis, which means that the air sacs
18 collapse, or if it is scarring, which is the fibrotic
19 equivalent. It's another word for the fibrosis that the
20 earlier radiologist said, and again, could well be related to
21 his prior exposure to asbestos.

22 Q. So next is Exhibit No. 2. This one is November 20 of 2008.
23 This is a cervical pathology report.

24 What's a pathology report, for those who may not
25 know?

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1 A. It's when a doctor trained in looking at tissue examines it
2 through the microscope and makes a judgment, is it normal
3 tissue, is it abnormal, or is it so abnormal that he would call
4 it cancer. He or she.

5 Q. And it says: "There is a number of specimens."

6 Do these represent different parts of the lung area,
7 or --

8 A. Yes.

9 Q. How about the lymph nodes, are they for the lung?

10 A. Lymph nodes are areas that are part of the immune system.
11 They drain lymph, which is the tissue fluid that carries around
12 immune cells. And you have nodes every so often, and cancer
13 cells will deposit in those and show evidence of spread of some
14 cancers.

15 Q. All right. So does this then report the findings that were
16 made after the pathologist read this?

17 A. Yes.

18 Q. It says: "Frozen section diagnosis reported to doctor as
19 malignant adenocarcinoma consistent with --"

20 A. There is a B missing there.

21 Q. Bron --

22 A. It should say bronchiolar.

23 Q. It's cut off. Bronchial alveolar tumor.

24 A. It's a specific type of lung cancer, and the causes of this
25 type of lung cancer are both cigarette smoking and asbestos.

1 Q. Talking about the adenocarcinoma?

2 A. Yes.

3 Q. It has another section here I've highlighted which says:
4 "Left lower lobe lobectomy demonstrating the following
5 attributes."

6 What's a left lower lobe lung lobectomy?

7 A. On the right side of the lung there are three lobes. On
8 the left side there are two lobes. What the doctors did here
9 is took out half the lung on the left side, the lower lobe,
10 leaving only the upper lobe.

11 Q. A lobe is like a --

12 A. A section.

13 Q. A section. Like an ear lobe, except in the lung?

14 A. Well, there's three sections on the right, they're a little
15 smaller, there are two sections on the left. Each one is a
16 little bigger. They took out one whole section on the left, so
17 essentially a quarter of the totality of the lung tissue.

18 Q. So this next part that I've highlighted says: "Pleural
19 tissue demonstrating incipient pleural plaque formation, site
20 designated left pleura."

21 A. If you recall we saw earlier an X-ray that talked about
22 bilateral, both sides, pleural thickening. Now what we have,
23 now that the tissue was taken out of Mr. Krik, a pathologist
24 looked at it through the microscope, he confirms that that
25 thickening that was seen on the X-ray actually does exist and

1 is a pleural plaque. And the most common cause of pleural
2 plaques is exposure to asbestos.

3 MR. CASMERE: I object to foundation and
4 characterizing this document beyond what's actually written
5 there and what the doctor meant or saw.

6 THE COURT: The objection is overruled.

7 BY THE WITNESS:

8 A. This document, for the record, is 15 -- I'm sorry. Is 02,
9 if you mention that or not.

10 BY MR. McCOY:

11 Q. The pleural area or the pleura again is what part of the
12 lung?

13 A. The lining on the outside of the lung and the inside of the
14 chest wall. The rib cage. There's two pleuras actually. This
15 is the one on the outside of the lung. When they took the lung
16 out they took the pleura with it.

17 Q. This particular report is actually based on having tissue
18 under the microscope?

19 A. Yes, sir.

20 Q. I'm going to switch to this other document for a second.

21 There we go. Okay.

22 This is not Mr. Krik's lung, but it's a
23 demonstration, a type of photograph that you might even use in
24 medical teaching, right?

25 A. It's actually -- it's not a photograph, it's a drawing or

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1 painting by Frank Netter.

2 Q. Okay.

3 A. He's a physician, medical illustrator. I'm well-familiar
4 with his work. And this shows the scar tissue that we call
5 pleural plaques.

6 Q. So this is the type of finding that was seen when the
7 pathologist looked at -- he didn't see all of this, but he saw
8 a piece of that plaque?

9 A. Correct.

10 MR. CASMERE: Objection. Foundation.

11 THE COURT: The objection is overruled. You can
12 inquire on that later.

13 BY MR. McCOY:

14 Q. And so the plaque is what area? Is it the white or the
15 red?

16 A. It's the white.

17 Q. Is the red the normal type of lung color that you see?

18 A. The red is normal. The white is abnormal.

19 MR. MORRIS: Your Honor, not to interrupt, I know
20 it's demonstrative, but should we give these a number, too, so
21 the record is clear?

22 MR. McCOY: It has a number. We'll look it up and
23 come back to it, Judge.

24 THE COURT: Ladies and gentlemen, let me just note
25 for your purposes that some exhibits are being used as

1 demonstrative exhibits, and what that means is that they are
2 not evidence in the case that you will be considering during
3 your deliberations. They are pieces of -- it's really a way of
4 demonstrating and assisting the witness in describing what the
5 witness is testifying.

6 So to the extent you hear reference to demonstrative
7 exhibits, keep in mind that those are exhibits that you will
8 not be considering during your deliberation.

9 BY MR. McCOY:

10 Q. Dr. Frank, I'm going back to Exhibit 2. I'm going back to
11 Exhibit 2 which we were looking at.

12 This is the report from November 19th, the surgical
13 pathology report. I want to turn to page 2?

14 A. Yes, sir.

15 Q. Okay. Page 2 says -- the part I've highlighted says:
16 "Multiple focally anthracotic lymph nodes negative for
17 metastatic adenocarcinoma."

18 What does that mean: Anthracotic lymph nodes?

19 A. When you look at tissue, particularly tissue from the lung,
20 a description that is used to describe the finding of black
21 particles in the lung is the expression anthracotic pigment, or
22 in this case anthracotic lymph nodes. It comes from an 1813
23 term of anthracosis, which was coal dust that deposited these
24 black pigments.

25 And are there are many causes of the deposition of

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1 this black pigment: Coal dust, people who work in bakeries can
2 get it, it's been seen secondary to air pollution, and
3 cigarettes will also do it. But there are many factors that
4 will give you this deposition of black pigment in the lung, and
5 that's what that refers to.

6 Q. Does the finding of this anthracotic pigment mean that it
7 has to be smoking-related?

8 A. Absolutely not. As I just said, it could be many things.
9 In Mr. Krik's case specifically, besides some of the things
10 that I mentioned, his smoking would be a cause of it, but
11 Mr. Krik was also a welder for part of his career. Welding
12 fumes will do that as well, air pollution can do it, if he
13 worked around coal, I believe some of his work was in power
14 plants so he may have been around coal. All of that would give
15 him anthracotic pigments, not just his cigarette smoking.

16 Q. Okay. That's the end of 2. Let's go to Exhibit 166.

17 This makes mention of the -- and this is on the
18 discharge from the lung procedure.

19 This makes mention of a history of penile cancer. Is
20 that something that you'd seen in the records?

21 A. Oh, yes, I saw it in his records. It was several months
22 earlier in the same year, March or April of 2008. His lung
23 cancer was in November. I had been aware of that.

24 Q. Does that penile cancer have anything to do with the lung
25 cancer?

1 A. No, absolutely not. And it was described in the records as
2 being two separate cancers.

3 And for the record, penile cancer would not be caused
4 by exposure to asbestos.

5 Q. And as far as the status of his penile cancer, based on the
6 records that you've seen today --

7 A. The records that I've seen shows that he's doing well from
8 that and seems to have no difficulty following his surgery at
9 that time.

10 Q. No evidence of any current penile cancer, right?

11 A. Correct.

12 Q. And same true for lung cancer; no evidence of any lung
13 cancer?

14 A. At the present time here we are, seven years later, there
15 is no evidence of his lung cancer. His cancer was at an early
16 stage; he has done well. One can't yet say for sure that he's
17 cured from that, but he's had a much greater longevity than
18 many people would with lung cancer. That's because his was at
19 an early stage.

20 Q. All right. The next record is Exhibit No. 8. And this is
21 from the same time period as all the other lung procedure
22 there, 11/26/08, which would be soon after the surgery.

23 And this is another chest X-ray, right?

24 A. Yes, sir. Just before he was discharged.

25 Q. Right. So this part I've highlighted says: "There is a

1 combination of presumed atelectasis as well as subtle ground
2 glass opacity in the left perihilar region and lower lung as
3 well as possible small pleural effusion or consolidation at the
4 lateral base."

5 What I'd like to do is to just briefly explain what
6 that means, and then I'll ask the next question about asbestos
7 and smoking.

8 A. This is following his surgery and appear to be the kinds of
9 changes you would see relatively acutely after surgery. Here
10 we have evidence of what's thought to be atelectasis or parts
11 of the lung that aren't aerating well.

12 The ground glass opacity is yet another expression
13 that some radiologists use to talk about scarring or
14 atelectasis, but since it's talked about separately, the
15 radiologist thought of them as two separate problems.

16 Perihilar means the central part of the lung, lower
17 lung, and pleural effusion is small amount of fluid which could
18 be the residual of the surgery that he'd had just a few days
19 before.

20 Q. Now, do any of these findings, to you as a medical doctor,
21 have anything to do with either asbestos or cigarette smoking?

22 A. At this point they're more related to the surgery that he
23 just had and could not be said to be just the asbestos or
24 smoking.

25 Q. Okay.

1 MR. McCOY: For the record, Judge, that was Exhibit
2 No. 66, where we had the illustration of the pleural plaques.

3 THE COURT: Okay. Thank you.

4 BY MR. McCOY:

5 Q. Next we've got Exhibit 13, the last one on the medical
6 records.

7 This is Joliet Oncology, a final report, and this one
8 is dated June 14th of 2011.

9 It says: "Type of examination: PET scan."

10 Is that another radiological procedure?

11 A. It's another radiological procedure done with radioactive
12 sugar molecules that highlight tumor tissue, because tumor
13 tissue is metabolically more active than other tissue. So it's
14 done to see if there is any recurrence of the cancer.

15 Q. This part I've highlighted here says: "There is calcified
16 pleural plaque bilaterally probably due to asbestos exposure."

17 What -- calcified pleural plaque, we've already
18 talked about the pleural plaque. What does calcified mean?

19 A. Sometimes these plaques, which are scar tissue, for reasons
20 that we don't quite understand, calcium will deposit in them.
21 It's like getting a bone spur where you get calcium deposit in
22 connective tissue in your tendons or in your joints sometimes.
23 But bilateral calcified pleural plaques I've never seen, nor
24 have I ever heard of any cause of this other than asbestos,
25 with the one exception of a very small percentage of people

1 exposed to talc, which is a chemical very similar to asbestos
2 but occurs with much less frequency.

3 And for somebody like Mr. Krik, who I don't know had
4 any exposure to talc, but now has had many, many years of
5 exposure to asbestos, the almost certainty, as the radiologist
6 suspected, was that his qualified pleural plaques on both sides
7 was due to his prior exposures to asbestos.

8 Q. What's the significance of the both sides?

9 A. Again, there are occasions where pleural thickening will
10 occur on one side only. It can be from asbestos, but it also
11 can be related to chest trauma.

12 For example, somebody who was in an automobile
13 accident with a steering wheel may have hit them in the chest
14 on one of their sides could get some pleural thickening and
15 very rarely those could become calcified. But to see it on
16 both sides is extraordinarily -- I've never seen it, except for
17 some reports of talc exposure, in anything but exposure to
18 asbestos.

19 The one other case of a calcified diaphragmatic
20 plaque, which is not what we're dealing with here, where the
21 diaphragm becomes calcified, was due to somebody who had trauma
22 from a knife wound, but this, much, much more likely than not,
23 was due to his exposure to asbestos.

24 Q. Does that chronic obstructive pulmonary disease, the COPD
25 from smoking, does that contribute to breathing problems later?

1 A. Yes.

2 Q. Could that be a reason why he has the breathing device now?

3 A. Yes.

4 Q. How about these other findings, like the scarring that
5 you're talking about?

6 A. The scarring would contribute, the fact that he's lost a
7 quarter of his lung essentially, all of that will contribute to
8 shortness of breath and the requirement for supplemental
9 oxygen.

10 Q. How about the calcified bilateral pleural plaque?

11 A. That's much harder to say. There are many studies that
12 show that plaques in most people don't affect their breathing,
13 but there are some studies and some work in a particular
14 setting, there happens to be some studies I've done in Libby,
15 Montana, that show that plaques can contribute to shortness of
16 breath.

17 So they could be part of it, but you can't tease out
18 how much is to this, how much is to that, how much is to
19 something else. Clearly the fact that he lost his lung is easy
20 to understand and a major piece of why Mr. Krik would be short
21 of breath. But if he had emphysematous changes, which would
22 be, as I said already, from the cigarettes and likely from some
23 welding activities, that would further add to that and
24 complicate his pulmonary care.

25 Q. How about pleural thickening; can that affect the breathing

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1 shortness?

2 A. I would have to give you the same answer. It can, and in
3 some people it does, but when you have a combination of factors
4 you can't say this one does it, this one doesn't do it, and how
5 much. It just -- you can't sort it out that way.

6 Q. Okay. Next question: What's the term "attribution" mean
7 when you talk about the cause of a disease? Very briefly.

8 A. It means cause. What do you say was the cause, or what do
9 you attribute it to.

10 Q. Okay. And how do you go about attributing the cause of
11 lung cancer in Mr. Krik?

12 MR. CASMERE: Objection, Your Honor.

13 THE COURT: Sustained.

14 BY MR. McCOY:

15 Q. How do you go about attributing, in the field of asbestos
16 disease where you've got asbestos and smoking, the cause of
17 lung cancer?

18 MR. CASMERE: Objection, Your Honor.

19 THE COURT: The objection is sustained.

20 BY MR. McCOY:

21 Q. Dr. Frank, I'd like to get one of the documents you've got
22 in your stack there, I think it's Exhibit 306, and it's the
23 Helsinki report.

24 Are you familiar with that one?

25 A. Yes, sir.

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1 MR. BLACKWELL: Objection, Your Honor.

2 THE COURT: The objection is overruled. We'll take
3 it one question at a time.

4 MR. BLACKWELL: Your Honor, objection.

5 MR. CASMERE: We object to the display of the
6 document.

7 THE COURT: Let's go to the sidebar.

8 (Discussion at sidebar on the record:)

9 THE COURT: So the issue for me is to get a better
10 handle on what you intend to do with the Helsinki report and
11 how the Helsinki article is to be considered by this witness in
12 terms of what the witness's testimony is going to be.

13 MR. McCOY: It's an example of the methodology by
14 which he determined the cause of lung cancer and any asbestos
15 disease, and it's just the methodology that is followed by,
16 like I said, a large, large number of people in the scientific
17 field.

18 THE COURT: Right, but that all leads to the
19 methodology, as I understand it, that underlay his opinion in
20 this case, which was ultimately not an admissible basis to make
21 the conclusion that he made.

22 MR. McCOY: It doesn't. It doesn't state the every
23 exposure contributes, no. The first question is -- see, the
24 every exposure, Judge, goes to is it Mobil or is it
25 Owens-Illinois. The question of what caused the disease

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1 overall is what the Helsinki methodology is about. That's how
2 scientists go about determining this, and that's not based on
3 every exposure contributes.

4 THE COURT: But it's based on, as I understand it,
5 it's based on the cumulative nature of exposure --

6 MR. McCOY: Right.

7 THE COURT: Mr. McCoy, let me finish my thought.
8 -- and to draw that link in this particular trial with these
9 particular defendants, being the only defendants that the jury
10 is supposed to consider, that testimony does not fit the
11 particular facts of this case that the jury has to consider.

12 And in light of the pretrial rulings about the
13 limited scope of Dr. Frank's testimony and the fact that a
14 significant part of his opinion was not to be admissible, there
15 is now an additional concern that I have, which is that to try
16 to get at it along the margins of these at a very high level of
17 generality -- which I can appreciate your attempt to do so --
18 but at a high level of generality, it then interjects a
19 confusion and, in fact, a prejudice to the defendants because
20 the building blocks aren't there; that to skip to a broad
21 picture, as I think the Helsinki report and the cumulative
22 exposure causation that you are alluding to here would do,
23 would end up being unfairly prejudicial and confusing to the
24 jury.

25 So I'm not going to allow that.

1 MR. BLACKWELL: Your Honor, could we make one request
2 since we're all here? Mr. McCoy, before he puts things up and
3 shows them to the jury, could we at least have a chance to see
4 it first in case there is an objection of some kind?

5 THE COURT: You should. Before you publish
6 something, you should let the defense know that you want to put
7 it on the screen.

8 MR. McCOY: Judge, I mean, I said it many times, but
9 Dr. Frank's opinion on if he did it, if he did give it in the
10 case, which I never said he would, ever, in this case, myself,
11 that was a motion by the defense to strike him from giving that
12 testimony. But the ruling on that was limited to the statement
13 that every exposure contributes. The Helsinki report is only
14 about how you would go about determining the overall cause.

15 We presented this in front of Judge Lee, and he
16 specifically distinguished that, you know, in the argument
17 about every -- about the overall total exposure being distinct
18 from whether a particular defendant is a cause.

19 THE COURT: Well, that piece of that presentation is
20 ultimately what led Judge Lee to conclude that it was not
21 proper in the way it was being attempted to fit in this
22 particular case, so I'm not going to allow the reference to the
23 Helsinki article.

24 MR. McCOY: All right. I just -- I need to somehow
25 then get to the point of these hypotheticals based on these

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1 defendants.

2 THE COURT: Well, you've laid the foundation of this
3 witness's background, his experience; you can ask him a
4 hypothetical, and we'll see how that goes.

5 MR. MCCOY: I'll go -- I will do it this way, okay?
6 I will ask him, like I said: Will one day cause it, will one
7 month cause it. I don't mean to -- I mean, what dosage will
8 cause it, and then I will go to the specific hypotheticals.
9 He's not going to say --

10 MR. MORRIS: No.

11 MR. BLACKWELL: That's exactly what shouldn't happen.

12 THE COURT: That does run afoul of the ruling. One
13 thing that you haven't done with the jury is elicit the 1974
14 article.

15 MR. MCCOY: I will do that.

16 THE COURT: You can establish that, but the --

17 MR. MCCOY: I'll do some other ones, too.

18 THE COURT: -- but the overall basis of any opinion
19 of his that would be that yes, that could cause cancer is, as
20 we've discussed before, all part of this any exposure
21 testimony.

22 So you can ask your hypotheticals, and we'll take it
23 a hypothetical at a time, but I think I have been clear as to
24 what the scope of the ruling is.

25 MR. CASMERE: He's establishing a foundation that the

1 rat study in 1974 is relevant to Mr. Krik.

2 THE COURT: You can draw that out, but it's an
3 article that exists in the literature and is a historical part
4 of fact, and we are going to receive, as I understand it,
5 plenty of historical facts about the history of these products,
6 so I'll allow that.

7 MR. CASMERE: Here's another concern I have. He's
8 continually asking questions that he knows run afoul of your
9 rulings, and I have to stand up and object, and those
10 objections are sustained. Now we're suggesting he has to ask
11 the hypothetical out there and I have to stand up and object
12 again. That prejudices me, because every time he asks a
13 foundational question I have to stand up and object.

14 He has to tell us now what those hypotheticals are
15 going to be so that the Court can rule on them, so I don't have
16 to get up yet again and object to a causation question, and
17 he's just doing it so I have to stand up and look like I'm
18 afraid of the answer.

19 MR. MORRIS: That's true. Two jurors shook their
20 heads when Mr. Casmere made his third objection.

21 THE COURT: That's what happens in trials. The
22 jurors are instructed that they're not to consider objections
23 against any lawyer. They're going to ultimately be instructed
24 that lawyers have a duty to object if they believe an objection
25 is proper, they're going to get my rulings whether the

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1 objection is overruled or the objection is sustained, they will
2 be told what to do with that. We have been doing trials that
3 way for a long time now. I'm not concerned that that's an
4 unfair procedure to have in place.

5 I do caution Mr. McCoy to adhere to the rulings, and
6 you'll have to use your judgment about what you think is within
7 the bounds of the ruling or not, and if there is an objection
8 I'll take the objection up, but I think we can all fairly
9 appreciate that this witness's causation opinion is
10 significantly limited. If there is any room for any causation
11 opinion at all from him, it's very limited, and based on his
12 report and everything that we've seen in the pretrial filings,
13 I've yet to see an opinion from Dr. Frank that would be
14 admissible.

15 So with those observations, let's go back.

16 MR. BLACKWELL: Your Honor --

17 MR. CASMERE: We haven't seen it, so why are we going
18 to elicit him to give a new opinion? If you haven't seen it,
19 we haven't seen it. We have disclosure issues. We shouldn't
20 be hearing about it for the first time. And then I have to
21 stand up and object.

22 We know this is coming. This is a problem that can
23 be ameliorated right now if he would tell us what they're going
24 to do.

25 MR. McCOY: A proffer of evidence -- I can't sit here

1 and read every question. I don't know what objections are
2 getting sustained. I think all my questions are proper.
3 That's within light of Judge Lee's ruling.

4 THE COURT: Okay. Let's go back to the examination.

5 MR. MORRIS: Since he brought up the Helsinki study,
6 I would ask you to instruct the jury to disregard it.

7 THE COURT: I will.

8 (End of discussion at sidebar.)

9 THE COURT: Ladies and gentlemen, there was an
10 article that was briefly published on the screen. You're not
11 to consider that article.

12 You may proceed.

13 BY MR. McCOY:

14 Q. Dr. Frank, what is the literature that scientifically you
15 rely upon about the duration of the dosage of asbestos that's
16 necessary to cause lung cancer?

17 MR. CASMERE: Objection, Your Honor.

18 THE COURT: The objection is overruled. The question
19 is what is the literature, so you can answer the question about
20 what literature there is.

21 BY THE WITNESS:

22 A. There is a lot of literature that I rely upon that
23 describes the amounts of asbestos that are necessary to produce
24 disease both in animals and in humans.

25 BY MR. McCOY:

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1 Q. Can you tell us the examples of that literature and the
2 duration or the doses in terms of period of time that are
3 involved in that literature?

4 MR. CASMERE: Objection, Your Honor.

5 THE COURT: Overruled.

6 BY THE WITNESS:

7 A. Starting with the animal literature, there is data where
8 people looked at two kinds of cancer that were related to
9 having animals breathe asbestos, they had rats breathe it for
10 varying periods of time, and what they found is that in as
11 little as one day of exposure where the animals breathe
12 asbestos and never again caused a small number of cancers,
13 including lung cancer. For --

14 BY MR. McCOY:

15 Q. Okay. Go ahead.

16 A. For human data, specifically for lung cancer, there is a
17 study --

18 MR. BLACKWELL: Objection, Your Honor.

19 THE COURT: The objection is overruled. Continue
20 your answer.

21 BY THE WITNESS:

22 A. For lung cancer, there is a study from a factory in
23 Patterson, New Jersey that was studied by Dr. Selikoff I would
24 examine as part of my experience within those workers as well.
25 It was a factory where there was a huge turnover of workers

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1 during World War II. Some of them worked there a long time,
2 but many of them worked for very shorts period of time,
3 including a month or less.

4 And when that data was looked at for workers who
5 worked at this factory in New Jersey, one month or less than
6 one month of total work time with no other exposures known to
7 asbestos doubled the risk of those individuals getting lung
8 cancer. And by the time you worked there for two years or
9 more, you had a seven-fold increased risk of getting lung
10 cancer. Again, the dose response curve documenting this.

11 There are also, not for lung cancer but other forms
12 of cancer, individual case reports, some of which have made it
13 into the literature of one day of exposure giving rise to
14 cancer.

15 BY MR. McCOY:

16 Q. The study about the rats that got lung cancer in a day from
17 asbestos, who is the author of that, and where was it
18 published?

19 A. It was Dr. Wagner published in the British Journal of
20 Cancer 1974.

21 Q. Is that peer-reviewed?

22 A. It is a peer-reviewed journal.

23 Q. And the human data you talked about for the factory in New
24 Jersey where it was a month or less for lung cancer?

25 A. That was published in the annals of the New York Academy of

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1 Sciences, again a peer-reviewed publication, after a major
2 asbestos meeting that was held in New York.

3 And the one day was the work of Greenberg and Davies
4 published in The Lancet, a British medical journal, on
5 short-term exposure to asbestos and the development of disease.
6 And that was 1974. I forget the page numbers.

7 Q. New York Academy of Sciences, what role has that
8 organization played in asbestos disease?

9 A. A very significant one. Dr. Selikoff was a governor, he
10 was one of the members of the board of directors. They even
11 elected him an honorary life governor when his term was up.
12 And three times, once in 1964, that was before I joined him;
13 once in 1979 when I was with him; and once in 1991 when he
14 invited me back to be with him, I had left Mount Sinai by then,
15 there were major multi-day conferences on asbestos and
16 asbestos-related diseases, each one being published as a
17 collection of those papers, somewhere around 6 or 700 pages
18 worth of scientific papers, all of which were peer-reviewed, to
19 make it into the final publication.

20 And the Patterson, New Jersey factory data can be
21 found in the second of those, I think it's Volume 330,
22 published in 1979.

23 Q. Are you aware of any data that was actually done measuring
24 how much asbestos was in the air when Mr. Krik was working?

25 A. None whatsoever. I'm not aware of any data. If it exists,

1 I haven't seen it, and I imagine if you had it to show me you
2 would have.

3 Q. If someone is cutting and sawing pipe covering, as you've
4 seen in a setting like whether it's a Navy shipyard or an oil
5 refinery, how many asbestos fibers are being released into the
6 air during that kind of activity?

7 MR. CASMERE: Objection, Your Honor. Foundation.

8 THE COURT: Objection sustained. That's outside the
9 scope of this witness's disclosure.

10 BY MR. McCLOY:

11 Q. All right. Are you familiar with a product called Kaylo?

12 A. I am.

13 MR. CASMERE: Objection, Your Honor. Foundation.
14 Outside of the scope of this witness's Rule 26 disclosures.

15 MR. McCLOY: Judge, he had the depositions.

16 THE COURT: There is an objection, Mr. McCoy. The
17 objection to that question: "Are you familiar with a product
18 called Kaylo," is overruled.

19 MR. CASMERE: I would request a sidebar, Your Honor.

20 THE COURT: Let's keep going, but I understand the
21 concern.

22 Let me just get the first answer, which is: Are you
23 familiar with a product called Kaylo.

24 BY THE WITNESS:

25 A. Yes, I am.

1 BY MR. MCCOY:

2 Q. How do you know about Kaylo? What's your basis for your
3 experience or knowledge?

4 A. Many different avenues of investigation, including working
5 for lawyers on behalf of the company that made that who hired
6 me to testify about Kaylo, so I had to become quite
7 knowledgeable about that.

8 And there are other lines of inquiry I've made of
9 workers who have used it, of understanding the materials that
10 went into the product, and have certainly examined and spoken
11 to many workers who have worked with that product. But I
12 actually did work for the company that made it.

13 Q. Now, I'd like you to, first of all, take into account what
14 you learned from Mr. Krik's medical records, and I'd like you
15 to assume that he personally installed or removed, cleaned up
16 over 200 boxes of asbestos containing Kaylo from 1954 through
17 the end of 1960; and that visible dust was generated from the
18 cutting and removing of the Kaylo with hammers; and that he was
19 working in smaller areas, inside ship boilers and compartments.
20 I'd also like you to assume that he had a history of smoking
21 cigarettes of a pack and a half, one and a half packs per day
22 during this same period of '54 through the end of '60, and then
23 he developed lung cancer in 2008.

24 Taking into account those assumptions and what you
25 know about his medical records, what is your opinion as to

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1 whether this dose was a substantial factor in causing Charles
2 Krik's lung cancer?

3 MR. CASMERE: Objection, Your Honor.

4 THE COURT: The objection is sustained.

5 BY MR. McCOY:

6 Q. I'd also like to ask you to assume, Dr. Frank, that
7 Mr. Krik had worked two to three weeks in small enclosed huts
8 at a Mobil Oil refinery in 1975, about, and he removed, using a
9 hammer, over 150 linear feet of asbestos-containing pipe
10 covering from lines that were two-inch and three-quarter-inch
11 lines. And, of course, the same history of smoking cigarettes
12 of about a pack and a half per day in the same period.

13 Do you have an opinion about the cause of Mr. Krik's
14 lung cancer based on that and the medical records you've seen?

15 MR. BLACKWELL: Objection, Your Honor.

16 THE COURT: The objection is sustained.

17 MR. McCOY: Judge, I can continue with the rest of
18 this if you like me to.

19 THE COURT: Well, why don't we have another sidebar.

20 (Discussion at sidebar on the record:)

21 THE COURT: So, each of the hypotheticals that were
22 posed just now for which I sustained objections were
23 hypotheticals that a response from the witness that included an
24 opinion that yes, that would cause lung cancer, would, in fact,
25 have been based on what the witness had previously disclosed in

1 his report, which was this notion that cumulative exposures
2 and, as the witness had previously testified in Judge
3 Pallmeyer's case, that you can't separate out individual
4 exposures in rendering a causation opinion, which is exactly
5 the problematic aspect of the opinion. So those hypotheticals
6 are not proper in light of the pretrial rulings.

7 If the remainder of the hypotheticals are going to be
8 similar, that would inexorably lead the witness to opine that
9 yes, that hypothetical could cause cancer, but it's based on
10 the witness's previously-stated opinions that you can't
11 separate out any particular exposure, and that it's the
12 cumulative exposure that leads to the causation, then none of
13 them are appropriate, and I can give you that ruling now to
14 save time.

15 MR. MCCOY: All right. So the only way I know to
16 deal with this is I can finish the few other questions I have
17 here, and then I'd like to make another proffer of evidence.

18 MR. MORRIS: I'd rather that the questions and
19 proffer go together.

20 MR. MCCOY: If you want to do the proffer now, I'll
21 do the proffer now.

22 THE COURT: What, in effect, would the proffer be
23 that is --

24 MR. MCCOY: His answer to the questions.

25 THE COURT: But that is --

1 MR. MCCOY: And the medically derived that has been
2 previously disclosed consistent with his Rule 26 disclosure.

3 MR. CASMERE: I'm looking at his Rule 26 report, and
4 it doesn't include most of this, so there is a disclosure
5 problem as well.

6 THE COURT: I don't want to take the time to do a
7 proffer now if it's a proffer of things that have not been
8 disclosed to the defense, because that's not problem.

9 MR. CASMERE: And not when I don't have a chance to
10 cross-examine this man today.

11 And I want to note for the record in the deposition
12 of Dr. Frank, page 128 lines 8 through 11, Mr. McCoy says he
13 will stipulate that Dr. Frank will not be testifying as a
14 witness about the brand names of a particular type of product
15 at trial.

16 He just did it. I stood up and objected, made a Rule
17 26 objection, and he had the stipulation in there, and then he
18 did it anyway. I'm not standing up there objecting, Your
19 Honor.

20 THE COURT: I understand the objection. The
21 objection was overruled at the time. We've moved past that
22 point. If there is an issue we need to take up later, we can
23 take that up later.

24 So the question to you, Mr. McCoy, is how do you want
25 to proceed with this witness on the stand right now?

1 MR. McCOY: I'm happy to finish my question. Like I
2 said, I have to make a proffer.

3 THE COURT: But you didn't answer my question, which
4 is: What about your proffer has been previously disclosed --

5 MR. McCOY: The proffer of the evidence, okay.

6 THE COURT: -- in his expert disclosure.

7 MR. McCOY: Okay. Within his expert disclosure are
8 the materials he relied upon. The materials he relied upon
9 include the substance of what's in the hypotheticals. Judge
10 Lee ruled he can testify to a hypothetical. He said in his
11 deposition he's going to testify to a hypothetical.

12 THE COURT: That's not an accurate statement of Judge
13 Lee's ruling, because Judge Lee's ruling was he could testify
14 to a hypothetical consistent with Judge Lee's opinion on
15 keeping out the any exposure basis for his opinion.

16 MR. McCOY: That's part of the proffer, is to explain
17 how the any exposure basis is not actually his opinion. So the
18 proffer deals with that aspect.

19 As far as the disclosure issue goes, that's something
20 that I don't have any questions about there being a disclosure
21 of this information, because he had the deposition testimony of
22 Krik, he had a chance to be deposed on it, he said he would
23 testify to hypotheticals, and this is one of the exposures
24 that's in the case.

25 Judge Lee actually said that the testimony was okay,

1 in addition to that statement that I just made about what
2 happened in the past. So as we came here today, I'm relying on
3 that proper disclosure and what Judge Lee ruled. Those are the
4 two things.

5 Again, I can make this clear at any point in time.
6 I'm happy to -- I don't have all of the documents in front of
7 me to go through it line by line, but I will if you need to go
8 through the disclosures.

9 MR. BLACKWELL: Your Honor, is it fairest to all
10 concerned, since Mr. McCoy wants to make his proffer, and if we
11 have to get up and down again it is somewhat prejudicial to us;
12 if he has ten minutes to simply do it outside the presence of
13 the jury, and then we come back. I know Your Honor is
14 certainly concerned about moving this along, but it's a bit
15 sticky now.

16 MR. CASMERE: I haven't heard a single thing where he
17 said he disclosed what he's going to do, and now he wants to
18 bring it up brand new at trial. We briefed and argued this
19 thing, and now we're going to take up more time.

20 You have the report. We have a deposition. He can't
21 point to anything in here about what he wants to do. Why we're
22 taking up more time right now for a proffer he's just going to
23 make up, and he had to disclose this years ago -- we briefed
24 this thing.

25 MR. BLACKWELL: The issue is we haven't heard it,

1 though, and Your Honor hasn't heard it.

2 THE COURT: Okay. I'll take a break now and let the
3 jury out, and you can ask a few questions of the witness
4 outside the presence of the jury and give me a better sense for
5 how anything that he may have to say in response to your
6 questions was previously disclosed in his report and not
7 inconsistent with Judge Lee's ruling.

8 (End of discussion at sidebar.)

9 THE COURT: Members of the jury, there are a few more
10 things that the lawyers and I have to talk about before we can
11 continue with Dr. Frank's testimony, so I'm going to ask you to
12 take a break right now for about ten minutes so the lawyers and
13 I can continue to have that conversation, and we'll resume in
14 about 10 minutes. Thank you.

15 (Jury out.)

16 THE COURT: I think you can remain seated there,
17 Dr. Frank. Mr. McCoy is going to ask you some questions.

18 THE WITNESS: Oh, okay.

19 VOIR DIRE EXAMINATION

20 BY MR. McCOY:

21 Q. Dr. Frank -- this is part of the proffer testimony here,
22 Judge, on Helsinki.

23 Dr. Frank, what is the methodology for attributing
24 causation in a person who has had significant asbestos
25 exposures and who has also smoked cigarettes in terms of your

1 -- the way that you go about doing it, and what are the sources
2 that you rely upon or point to in doing that?

3 A. I would like to think I do what every physician does, is
4 start with considering what might be called a differential
5 diagnosis, studying what the diagnosis is, coming to some
6 conclusion as to what the diagnosis is, and then bringing to
7 bear many, many lines of scientific evidence, both
8 independently for asbestos and for cigarette smoking.

9 The evidence for asbestos and its ability to cause
10 disease, cellular changes, etcetera, would include cell culture
11 studies, organ culture studies, whole animal studies, case
12 reports, case series, human epidemiology, and simply put, the
13 totality of the evidence in all of those areas with regard to
14 the effects of asbestos leads one incontrovertibly to the
15 conclusion that exposure to asbestos has the ability to cause
16 lung cancer.

17 With regard to cigarette smoking, similarly one looks
18 at the totality of evidence: What are the carcinogens in
19 cigarettes, how have they been testified, have they been tested
20 in cell cultures, in whole animals, in animals forced to
21 breathe cigarettes, and what does the human epidemiology tell
22 us. So all of that is considered.

23 Then the complication, of course, is when you have
24 multiple exposures is it possible to attribute the disease to
25 one or the other, or if both, to a percentage. And the simple

1 answer is what science tells us is that the attribution of a
2 particular disease in a given individual must be attributed to
3 all of those prior exposures that had the ability to cause that
4 disease if those exposures can be documented, if they meet
5 appropriateness of dose, and if they meet the appropriateness
6 of latency, and if they meet the appropriateness of cell type.

7 One also should consider other potential causes for
8 any given individual, and so specifically in the case of
9 Mr. Krik, what I'm aware of is that he had significant exposure
10 to asbestos, he had a significant smoking history, and that at
11 the end of the day science tells me I must attribute his lung
12 cancer to both of those exposures, and science also tells me
13 that I cannot apportion that attribution, but what I can do is
14 characterize, as I did earlier, to a certain extent with the
15 numbers I gave the jury and to the development of lung cancer
16 after cessation of either use of asbestos or the use of
17 cigarettes and what the role might be, but without putting any
18 specific characterization to it.

19 Q. Now, in terms of the word "attribution," you're talking
20 about the overall cause of the disease, right?

21 A. I'm interpreting attribution as cause, what caused
22 Mr. Krik's lung cancer, and it's very clear to me what caused
23 his lung cancer, and that is a combination of his exposure to
24 asbestos and his cigarettes smoking.

25 Q. When you talk about this, is that a scientific methodology

1 that you're following?

2 A. Absolutely.

3 Q. What is --

4 A. It's the science that every physician uses, and it's also
5 keeping in mind, though I didn't mention it, I used the term
6 Bradford Hill earlier today, or Austin Bradford Hill. He has
7 characteristics that scientists are to consider with regard to
8 being able to link an exposure to an outcome.

9 And there are nine such criteria. All of them need
10 not be met, but they have to do with such things as did the
11 exposure take place before the disease. The answer to that is
12 yes. Are there -- is it biologically plausible. So when you
13 have something like cigarette smoke with many carcinogens is it
14 plausible it would cause lung cancer; yes. Asbestos causes
15 cancer, again, because of many lines of evidence, so is that
16 biologically plausible. Is there a dose-response relationship.
17 There is for both of these.

18 And I could go on and on, but one applies what is
19 standard, well-accepted principles of science in reaching such
20 a conclusion.

21 THE COURT: But is it fair to say, Doctor, that you
22 can't, consistent with the science, in your view, isolate out
23 particular exposures in order to rule in or rule out those
24 particular exposures in isolation as a cause?

25 THE WITNESS: Science tells us, Your Honor, that if

1 you have exposure to a carcinogen -- and it is well-accepted
2 that there is no known safe level to carcinogens. And that
3 applies not only to asbestos but radiation. The American
4 Petroleum Institute in 1948 said there is no known safe level
5 of exposure to benzene. It's a principle that applies to
6 cancer-causing agents.

7 So it's not a question of ruling in or ruling out.
8 It's really a question of ruling in. If the exposure took
9 place, it was part of the cumulative exposure that someone had.

10 I do understand that there are differences when one
11 looks at it scientifically and perhaps judicially, and I have
12 been doing this long enough to understand some of that, but
13 from a scientific standpoint I have to say to you that if there
14 is exposure to a cancer-causing agent, that becomes part of the
15 totality of the exposure. Some may contribute more, some may
16 contribute less, but they are all part of the exposure.

17 THE COURT: Thank you.

18 BY MR. MCCOY:

19 Q. So let's take the statement that, first off, the statement
20 that the cumulative exposure is the cause. That's the
21 statement that you talked about that meets the Bradford Hill
22 criteria.

23 A. Yes, sir.

24 Q. Okay. Now, let's deal with the statement that every
25 exposure is a cause. Is that a statement of methodology the

1 way you would say like for the Bradford Hill, or is that --

2 A. That's not part of Bradford Hill. It is the cumulative
3 exposure. How one gets there depends on the circumstances.

4 Mr. Krik smoked two brands of cigarettes. He smoked
5 Pall Malls for awhile, he smoked Marlboros for awhile. Can I
6 rule in one or the other and say one did it and one didn't do
7 it? Of course not.

8 Similarly, he had multiple exposures to asbestos.
9 Can I rule any of them out as being part of his contributory
10 cumulative exposure? I cannot do that.

11 Q. All right. So that, again, cumulative exposure is the
12 scientific methodology that meets the Bradford Hill criteria?

13 A. Right, with the ability that I need to be asked about, can
14 I reasonably say that the kind of exposure he had in other
15 circumstances has caused this disease; we haven't gotten there
16 with perhaps some of the testimony that I might yet give, but
17 for the benefit of the Court, the fact that Mr. Krik has a
18 nonmalignant asbestos disease speaks to a large cumulative
19 exposure and to the fact that he had such disease has been
20 documented in the scientific literature as being predictive of
21 people more likely to get lung cancer from asbestos.

22 Q. And that's another aspect of how you go about attributing
23 the overall cause?

24 A. It's part of the totality of reading the scientific
25 literature. And, you know, after 45 years it's thousands and

1 thousands of articles which I've distilled down as best as I
2 can as a scientist to create what I think is the truth about
3 asbestos science.

4 Q. Okay. Who else out there says that the cumulative
5 exposure, besides yourself today, is the cause of -- is
6 considered the cause of these types of exposures like asbestos
7 or smoking?

8 A. Government agencies, the Helsinki criteria, many other
9 scientists. I mean --

10 Q. What government agencies?

11 A. IARC, which is a branch of the International Agency for
12 Research on Cancer, part of the World Health Organization that
13 studies these issues; OSHA, that came out as recently as last
14 year saying not only there is no safe level of exposure, but
15 that it speaks to the totality of the exposure giving rise to
16 disease.

17 Q. You mentioned Helsinki. Is that something that espouses
18 the cumulative exposure as the cause of the disease?

19 A. Yes. And they come to the documentation of the cumulative
20 exposure by a qualitative description, which is rife throughout
21 this document.

22 And not only that, they address the subject of
23 attribution to asbestos and cigarette smoking by saying in
24 here, if I can quote: "No attempt has been made in this report
25 to apportion the relative contributions of asbestos exposure

1 and tobacco smoking because it can't be done."

2 No attempt was even done to do it because it's not
3 something that science in a rational way can do.

4 Q. All right. Just stay with my questions for a moment here.

5 The Helsinki report in this case is Exhibit 306.

6 This was published in 1997, and it was based on what type of
7 scientific process to arrive at this?

8 A. The consensus document was put together by 19 scientists,
9 all of whom worked in the area of asbestos, who met in
10 Helsinki, created this document, which they again produced by
11 consensus. Between them they had over a thousand publications
12 on the subject of asbestos, and this is that consensus
13 document.

14 The full document runs about 125 pages, but this is
15 the summary of that. And it discusses all of the diseases that
16 I've talked about earlier -- not all of them. The significant
17 ones that I talked about earlier.

18 Q. So let me move on from there.

19 A. All right. All of their names are listed at the end
20 of the document, right?

21 Q. I'm sorry?

22 Q. All of their names are listed at the end of the document?

23 A. Yes, sir.

24 Q. By Dr. Roggli, R-o-g-g-l-i, he's a witness who now usually
25 testifies for the defense, right?

1 A. That is accurate.

2 Q. He's one of the signatories back here, right?

3 A. Yes, sir.

4 Q. And it says in the Helsinki document -- and I'm at page
5 314. I'll put it up on the screen to make it easier for you.

6 Page 314 of this Helsinki document says: "Estimates
7 of the relative risks for asbestos-associated lung cancer are
8 based on different-sized populations."

9 Do you agree with that?

10 A. Yes.

11 Q. "Because of the high incidence of lung cancer in the
12 general population, it is not possible to prove in precise,
13 deterministic terms that asbestos is the causative factor for
14 an individual patient even when asbestosis is present.

15 However, attribution of causation requires reasonable medical
16 certainty on a probability basis that the agent, asbestos, has
17 caused or materially contributed to the disease."

18 You agree with that?

19 A. Yes.

20 Q. "The likelihood that asbestos exposure has made a
21 substantial contribution increases when the exposure
22 increases."

23 Do you agree with that?

24 A. I have been stating that all day under oath.

25 Q. "Individual exposure on a probability basis should not be

1 considered the main criteria for the attribution of a
2 substantial contribution by asbestos to lung cancer risk."

3 Do you agree with that statement?

4 A. Absolutely.

5 Q. Okay. Now, what I'd like you to do for us is -- and is it
6 fair to say that the Helsinki document sets forth a methodology
7 for attributing causation?

8 A. Yes.

9 Q. And would this -- this part of this document, you agree
10 that that's something you would follow?

11 A. Yes. That's essentially what I just outlined.

12 Q. And this consensus statement of the scientists, has it been
13 altered, or changed, or regrouped, by any subsequent document?

14 A. It's actually just been reaffirmed. They just met again in
15 Helsinki last year, and they basically reaffirmed that
16 approach.

17 Q. Who is the "they?"

18 A. Another consensus body. I don't know exactly who was
19 there, but there were another group of scientists in 2014 that
20 revisited this earlier document, and that approach would still
21 be valid.

22 Q. How do you know that that happened?

23 A. Because I've seen the document.

24 Q. Has it been published yet, the document?

25 A. Yes. It's available online, yes.

1 Q. And this Helsinki criteria, the summary document, this is
2 published in the peer-reviewed journal, right?

3 A. Yes.

4 Q. Can you explain the difference between what you might say,
5 if you did say in a case, that all exposures contribute versus
6 the Helsinki methodology, and what I'm talking about is in the
7 context of a specific individual exposure, that's a conclusion
8 versus a methodology?

9 A. Well, it's the cumulative exposure and how do you get to
10 the cumulative exposure. It's from the individual exposures
11 that took place over that person's lifetime.

12 Q. So when you use the term every exposure is a cause, though,
13 I think you said in your deposition earlier in this case that
14 that's the conclusion and not your methodology.

15 A. That's the conclusion. That's not a methodology, that's a
16 statement of how you get to cumulative.

17 Q. Okay. So the difference is the cumulative is the
18 methodology that underlies how you attribute causation, whereas
19 the every exposure is just -- is a conclusion that someone else
20 may or may not accept; is that a difference?

21 A. Correct. And some people, frankly some jurisdictions,
22 specifically do not accept that. That, again, you know,
23 meaning no disrespect to the judiciary, is a judicial
24 conclusion that does not comport with science.

25 Q. Okay. Let's put that aside for a moment.

1 THE COURT: That ends up being the wrinkle, right?

2 We have to apply the law to the science in a way that is
3 consistent with the rules of evidence, and I appreciate your
4 adoption of staying in your lane in terms of telling us what
5 the science is and then letting us figure out what we do with
6 the science.

7 THE WITNESS: And we know the science doesn't vary --

8 BY MR. McCLOY:

9 Q. Dr. Frank --

10 A. -- the law varies by jurisdiction.

11 Q. Dr. Frank, please.

12 So we know the ruling has been made in this case
13 about that, and we're not -- I'm not here today with you
14 questioning that ruling at the moment. We're accepting that
15 for the moment.

16 MR. McCLOY: And just to be clear, Judge, obviously
17 that's something we disagree with, I'll preserve that
18 disagreement, but let's continue for a moment here.

19 THE COURT: Let me ask, Mr. McCoy: About how much
20 more proffer do you have?

21 MR. McCLOY: I'm getting near the end. I have just a
22 couple more minutes.

23 BY MR. McCLOY:

24 Q. I just want to make clear here: When you're not able to
25 say every exposure is a cause, can you still apply the

1 methodology of the Helsinki and the other organizations you've
2 talked about to come up with a causation opinion when you have
3 specific facts, like we have here, about Mobil Oil and
4 Owens-Illinois Kaylo?

5 A. Absolutely. My report says that. It says the cumulative
6 exposure. It doesn't say every exposure.

7 Q. And that's a different statement, is what you're
8 explaining?

9 A. Yes.

10 Q. That's what I'm trying to get across.

11 Now, going to the next set of questions that I would
12 follow based on that: Assume Mr. Krik personally installed or
13 removed and cleaned up over 200 boxes of asbestos-containing
14 block and pipe covering from 1954 to 1960, visible dust is
15 generated from cutting and removing the pipe covering and block
16 with hammers, small -- that the work was done in smaller areas
17 inside ship boilers and compartments, and also to assume the
18 history of smoking a pack and a half of cigarettes in that same
19 time period, assuming that Mr. Krik developed lung cancer in
20 2008 based on the other medical findings that you've seen about
21 the markers of asbestos exposure in him, and whatever other
22 factors you put in the totality, do you have an opinion as to
23 the cause, as to whether that exposure, that dose, was a cause
24 and a substantial factor in Mr. Krik's lung cancer?

25 A. I do have an opinion.

1 Q. What is your opinion?

2 A. That the exposures as described in that setting and with
3 that material was a substantial contributing cause to his
4 cumulative exposure which is what gave him his lung cancer.

5 Q. And in terms of the basis for your saying that an exposure
6 of that type of duration, under those conditions, with these
7 markers of disease, are a -- is a substantial contributing
8 cause, what is it -- you already talked about the one day. In
9 addition to the one day, what is the other evidence of
10 exposures of shorter durations that would be relevant to that
11 being a cause?

12 A. A month or less, doubling the risk of lung cancer.

13 Q. Any others that you'd like to talk about here? In terms of
14 risk.

15 A. There, again, are other reports of short-term exposure on
16 the order of a few months. I've certainly seen cases besides
17 what's in the literature of only a few months of exposure
18 giving rise to malignancy. And even the Helsinki criteria
19 speaks to the twofold risk of lung cancer can be achieved with
20 exposures of less than one year. Here we're talking about
21 multiple years.

22 Q. Now going to the other situation involving Mobil, and
23 again, assuming Mr. Krik worked two to three weeks in small
24 enclosed huts at a Mobil Oil refinery in 1975 and removed,
25 using a hammer, over 150 linear feet of asbestos-containing

1 pipe covering from a two-inch and three-quarter-inch lines,
2 assume again that same history of cigarette smoking of a pack
3 and a half a day during that time period, and the other
4 information you know about, the markers of asbestos and
5 cigarette smoker, smoking, do you have you have an opinion to a
6 reasonable degree of scientific medical certainty about whether
7 the dose at the Mobil Oil refinery was a substantial factor in
8 causing Mr. Krik's lung cancer?

9 A. Yes, I have an opinion.

10 Q. And your opinion on that is what?

11 A. That the exposure he had to the asbestos at the Mobil
12 facility was a substantial contributing cause to his cumulative
13 exposure which gave him his disease.

14 Q. And is the basis in terms of the duration and types of
15 activities the same as you've expressed already?

16 A. Yes, sir.

17 MR. McCOY: Judge, I think that completes the proffer
18 of evidence or the questions that we would ask should they be
19 allowed to be asked in connection with this case.

20 THE COURT: Do the defense attorneys want to inquire
21 of the witness with respect to the proffer?

22 MR. CASMERE: Briefly. We'll obviously incorporate
23 our briefing.

24 VOIR DIRE EXAMINATION

25 BY MR. CASMERE:

1 Q. Doctor, your opinions or your answers to those
2 hypotheticals would be the same if the hypothetical was that he
3 was exposed in that manner on a single occasion, correct?

4 A. Yes, sir.

5 Q. And it would be the same as if he was exposed on a single
6 occasion for a minute.

7 A. I've never run in such a case, I doubt that I would ever
8 get such a case --

9 Q. But if you did?

10 A. You know, there are times when you talk about speculation;
11 that is speculative. I would say that exposures above
12 background all contribute to one's cumulative exposure. It is
13 almost inconceivable to me that that would be the reality of a
14 situation. I've never known someone to be exposed for one
15 minute. That's not how the reality of life works.

16 But the principle of science gets to cumulative
17 exposure -- let's take a similar example. Somebody smokes one
18 brand of cigarettes -- I've been asked this -- for different
19 years, bums a different brand and smokes one cigarette. You
20 may have even asked me this, somebody asked me, many times,
21 would I say that was a significant contributing cause.

22 I would have to say that it was part of the
23 cumulative exposure. Obviously 40 years and one cigarette are
24 very different. But on the other hand, if there were a million
25 brands of cigarettes, and somebody lit up a different brand

1 every time, smoked a million cigarettes and got lung cancer,
2 would you say that any one cigarette was not causative or that
3 the cumulative exposure was causative?

4 So you can't leave out any documentable exposure as
5 exposure as being part of the cumulative exposure. The
6 question is is there such evidence. And we certainly have
7 that, and we don't have it for just a minute here.

8 Q. That's the beauty of the hypothetical. If the hypothetical
9 was one minute of exposure, your answer would be yes?

10 A. It would add to the cumulative exposure.

11 Q. And it would be a substantial contributing factor to that
12 person's ultimate disease?

13 A. As I understand science, I would have to say yes.

14 Q. Your opinion is that every exposure above background is a
15 substantial contributing factor to a person's asbestos-related
16 disease?

17 A. From a scientific standpoint that is what science tells me
18 I have to say, though I've clearly been in situations where
19 courts have ruled that some exposures are considered
20 insubstantial or cases are dismissed because of, you know, a
21 variety of reasons. But science and the law are different, and
22 I have to stick with what science tells me. I'm a scientist.
23 I'm not trained in the law.

24 Q. And that would be true regardless of the dose, duration, or
25 intensity?

1 A. If there is documentation above background, it adds to
2 someone's cumulative exposure that they wouldn't have otherwise
3 had.

4 And just to be clear, background levels are part of
5 someone's cumulative exposure, but I've often testified many
6 times that if that was the only exposure, I would not say that
7 background alone, with a reasonable degree of certainty, was
8 the cause of that person's disease, because it doesn't rise to
9 that level. But when you get exposures above background, it
10 becomes more likely than not, which is the standard as I
11 understand it, that it was contributory.

12 Q. We all appreciate your candor and your consistency on this
13 issue, Doctor.

14 The reality is that for you to make an attribution of
15 someone's lung cancer to asbestos, assuming there was proper
16 latency, and assuming that they had a cell type of lung cancer
17 that can be caused by asbestos, you only need two pieces of
18 information. One is that they had the disease, lung cancer of
19 that cell type, and two, that they had some documentable
20 exposure above background?

21 A. And a proper latency.

22 Q. I'm sorry?

23 A. And proper latency.

24 Q. And a proper latency.

25 A. And then it becomes reasonable to say that asbestos was a

1 contributing factor. That doesn't mean that there aren't other
2 contributing factors.

3 Q. The last thing is: Are you now completely embracing
4 Helsinki and using that as your basis to give causation
5 opinions in asbestos cases?

6 A. I'm not totally embracing Helsinki. There are
7 statements in here --

8 THE COURT: I think that's getting a little farther
9 afield than what we need to be covering right now.

10 Anything from Mobil? Let me ask if Mobil has
11 anything they want to add.

12 MR. BLACKWELL: A couple questions, Your Honor.

13 VOIR DIRE EXAMINATION

14 BY MR. BLACKWELL:

15 Q. Good afternoon, Dr. Frank.

16 A. Good afternoon, sir.

17 Q. Let's talk about the science, just briefly.

18 Can we agree scientifically that dose and exposure
19 are not the same thing?

20 A. Absolutely.

21 Q. Because it's possible to be exposed to a certain quantity
22 of asbestos and not receive a dose of it, at least not a dose
23 that's the same as the exposure?

24 A. Well, it depends how you define exposure and dose. I have
25 a piece of asbestos in my office, it's in a plastic box tightly

1 sealed up, so in one sense I'm exposed to it every day, but I
2 get no dose. But if I open that box, then not only would there
3 be an exposure, but some proportion of that would end up being
4 breathed in by me, and it would be a dose.

5 Q. But you know which proportion, at least something about
6 portions that actually end up in the lungs that are called
7 respirable, don't you?

8 A. Right. Some fibers are not respirable, some are, but --

9 Q. There is a size threshold, isn't there?

10 A. Excuse me?

11 Q. There is a size threshold.

12 A. Yes, there is a size threshold.

13 Q. Is it roughly 10 microns?

14 A. 10, some fibers up to 15 can get in.

15 Q. And so when we say 15 microns, 25,400 microns in one inch,
16 right?

17 A. Something like that.

18 Q. So if we're talking about what dose of asbestos that
19 somebody got, we're talking about what dose was the respirable
20 portion, true?

21 A. We are talking about what is respirable. There are other
22 reasons things are not respirable. If the material is in a
23 binder it may be aggregated so that it doesn't get in. Not
24 every fiber that's in the air will end up in people's lungs.

25 Q. Right. And in terms of the --

1 A. And we'd never know what the dose is that actually gets
2 into someone.

3 Q. In terms of the dose that Mr. Krik would have gotten at any
4 work site, and especially Mobil, you don't have any information
5 regarding the dose of exposure from any product and/or how much
6 that dose would have incrementally increased the risk for
7 cancer, do you?

8 A. I don't have those numbers, and those numbers, if they
9 exist, have not been shown to me.

10 I believe there is a regulation that requires a
11 measurement of asbestos when it's being used in work places.
12 The workers are not expected to collect that data, that's for
13 the work site to do. So those numbers exist, I'd be happy to
14 look at them, but in the absence of that we go by what the
15 Helsinki criteria says, which is a description or a history of
16 exposure, not that we know the actual number or dose.

17 Q. Dr. Frank, Helsinki is about the types of exposures that
18 might increase risk, true?

19 A. And every exposure increases risk; not everybody who is at
20 risk gets the disease.

21 Q. Sir, I'm asking you specifically about Helsinki, if we
22 could stick with that.

23 The Helsinki criteria define and speak to which types
24 of exposures increase simply the risk for developing a disease,
25 lung cancer, true?

1 A. No, it goes beyond that. I mean, Mr. McCoy read:
2 "Cumulative exposure on a probability basis should thus be
3 considered the main criteria for the attribution of a
4 substantial contribution by asbestos to lung cancer risk."

5 Yes, to risk.

6 Q. Lung cancer risk.

7 A. Right.

8 Q. Is that what you read on the end?

9 A. Yes, it does talk about risk, and the risk goes up with
10 every exposure, but that doesn't mean everybody gets it.

11 Q. The last question for you, I want to know if you stand by
12 this statement that you actually gave in this case: Every
13 exposure adds to the risk, and the cumulative exposure from
14 each one is significant in and of itself, but cumulatively they
15 more significantly give somebody the disease when you take into
16 account the sum total. But you say that each and every
17 exposure adds to the risk?

18 A. That's what I testified to in, what, 2011 when I gave the
19 deposition?

20 Q. No, I think that was at -- that's right. 2012.

21 A. 2011.

22 Q. 2012. You stand by that?

23 A. I do.

24 Q. Thank you, Doctor.

25 THE COURT: Anything further, Mr. McCoy?

1 FURTHER VOIR DIRE EXAMINATION

2 BY MR. McCOY:

3 Q. Dr. Frank, if in this case with Mr. Krik you didn't testify
4 that every exposure is a cause, would that affect your ability
5 to answer the hypotheticals?

6 A. Not at all.

7 Q. You could do it without testifying to every exposure or
8 cause?

9 A. Certainly.

10 Q. I'm sorry. Your answer was?

11 A. Yes. Certainly I could do that. I could talk about the
12 cumulative exposure that increased his risk that in his case
13 actually gave him the disease.14 MR. McCOY: That's all I have, Judge. I would again
15 tender this evidence either as a proffer or as evidence in this
16 case.17 THE COURT: Okay. I'm adhering to my ruling that I
18 articulated at sidebar. I can explicate that further at a
19 later time, but I'd like to just move on.20 MR. McCOY: Judge, I would have to say one thing at
21 this point. I mean, I think this issue should be certified to
22 the Seventh Circuit, because this is a long trial, and I just
23 don't think it's something that's worth getting forward on here
24 if we don't have an expert who can testify to causation in a
25 way specific to Mr. Krik. I've got great concerns about it.

1 I'm happy to go ahead right now with the rest of the
2 examination and we can talk about that later after the jury is
3 gone, so I'm fine to go, but I just want to let you know my
4 very grave concern about what's happened here.

5 THE COURT: Okay. We can come back --

6 MR. McCOY: But I appreciate you letting me make the
7 record.

8 THE COURT: Of course. We can take that issue up at
9 the end of the day as well.

10 Why don't we resume. Let's get the jury.

11 MR. CASMERE: Can we have one minute to run to the
12 bathroom, Your Honor?

13 THE COURT: Sure.

14 Do you need a break, Dr. Frank?

15 THE WITNESS: I wouldn't mind.

16 THE COURT: Go ahead.

17 THE WITNESS: Thank you, Your Honor.

18 MR. MORRIS: Five minutes? Less? Two?

19 (Recess. Jury in.)

20 THE COURT: Please be seated.

21 Members of the jury, I'm usually much better at
22 predicting how long our break is going to be, but that one I
23 did not get correct. But we are ready to resume.

24 Go ahead, Mr. McCoy.

25 BY MR. McCOY:

1 Q. Dr. Frank, in the literature that's been published, what
2 period of time does it take for asbestos exposure to cause lung
3 cancer?

4 A. As little as a month or less in humans has been documented
5 as being able to increase the risk and in some people cause
6 lung cancer.

7 Q. What publication is that?

8 A. That is the study of Dr. Selikoff from the UNARCO plant,
9 U-N-A-R-C-O, UNARCO plant in Paterson, New Jersey.

10 Q. How about is there any exposures in animal studies about
11 how long it takes to cause lung cancer from asbestos?

12 A. Yes. In animal studies, as little as one day of exposure
13 has been shown to cause lung cancer.

14 MR. MORRIS: Your Honor, this is cumulative. This
15 has been asked and answered.

16 MR. McCOY: I'm sorry if I covered something.

17 THE COURT: I think we did cover this, but you can
18 continue. Go ahead.

19 BY MR. McCOY:

20 Q. I don't want to restate something. I lost my -- that in my
21 notes here that we covered that.

22 So we've covered that, Dr. Frank. Did you need to
23 add anything else on that?

24 A. No.

25 Q. Okay. Is it necessary that someone would have a diagnosis

1 of asbestosis before they could have a lung cancer that's
2 caused by asbestos?

3 MR. CASMERE: Objection to the extent he's asking the
4 doctor his causation opinion.

5 THE COURT: That objection is overruled.

6 BY THE WITNESS:

7 A. There are differing opinions. The majority opinion is
8 clearly that there's no need to have asbestosis to attribute
9 asbestos as a cause of someone's lung cancer. There are many
10 publications on that and many lines of evidence that would make
11 that not be so.

12 BY MR. McCOY:

13 Q. And just to cut through this, you provided me some of the
14 pieces of literature that support that position; is that right?

15 A. Yes, sir.

16 Q. Okay. And one of those would be the Selikoff 1968
17 publication; is that correct?

18 A. No, that's -- that's the one where he talks about the
19 synergy with smoking. That's not one that addresses that
20 issue.

21 There's a paper that he wrote -- the first author is
22 Kippen -- showing that you don't need radiologic asbestosis.
23 There's the Markowicz paper we've already talked about from
24 2013. There's work from Scandinavia from Hillerdal. There's
25 Dr. Roggli who has made that statement in the past, and many

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1 others who have said that asbestosis and lung cancer, in fact,
2 are two separate diseases, which they are. They're caused by
3 two different kinds of cells.

4 There's no analogy to any other situation where you
5 have to say that you have a nonmalignant disease to attribute a
6 malignant disease. Some people with lung cancers have
7 asbestosis. Some people with asbestosis don't get lung cancer,
8 and some people with lung cancer don't have asbestosis.

9 Q. Is another example of one of these publications the Banks
10 publication?

11 A. I'm sorry, who?

12 Q. The Banks publication? I think it's our Exhibit 311.

13 A. Banks?

14 Q. Yes. Lung cancer --

15 MR. CASMERE: Could I just ask that a year be given
16 with each of these publications, Your Honor?

17 MR. McCOY: I will, Judge.

18 THE COURT: Okay. Thank you.

19 MR. McCOY: I'll give the exhibit number and the
20 year.

21 BY MR. McCOY:

22 Q. So --

23 A. That's not one that I'm immediately familiar with, Banks.
24 If you show it to me or --

25 MR. McCOY: Banks is 311.

1 MR. CASMERE: I just want to know if it's before 1958
2 or after 1958.

3 MR. McCOY: It's a 2009 publication.

4 BY MR. McCOY:

5 Q. I'll give you a copy.

6 A. Oh, I don't know it under the author's name because it's,
7 again, a consensus document.

8 I know it is-- here, I have that. It's a consensus
9 document, not -- I know it as that. I don't know it as the
10 first author.

11 Q. So that's one of the ones that supports --

12 A. Oh, absolutely.

13 Q. -- that you don't need asbestosis?

14 Okay. How about the Cullen article in --

15 A. The Cullen article, the Finkelstein article, Hillerdal, I
16 mean, there's just a lot of such articles. There was actually
17 a series of commentaries about eight -- 1987 in the
18 International -- American Journal of Industrial Medicine that
19 Dr. Selikoff was editor of. He asked for people to comment on
20 that subject, and I think there was one that said you needed to
21 have asbestosis. Everybody else pretty much said no.

22 There was some confusion. The earliest cases of lung
23 cancer seen in people exposed to asbestos were all in workers
24 who had a lot of exposure. So they had asbestosis and lung
25 cancer. So some people thought, well, you had to have one to

1 have the other. But clearly there's many lines of evidence
2 since then that that's not the case.

3 Q. Okay. The Cullen publication was 2005 --

4 A. Yes.

5 Q. -- that we mentioned? That's our Exhibit 326.

6 How about the American Thoracic Society publication
7 in, I think it's 2003?

8 A. Right. That's another one, the diagnosis and initial
9 management of nonmalignant diseases related to asbestos.

10 Q. All right. Let's change topics for a moment.

11 Do persons who lived in their fifties -- into their
12 fifties or sixties or seventies have asbestos fibers in their
13 lungs even if they did not work in industrial settings?

14 A. Yes.

15 Q. And how many do those persons have compared to people in
16 industrial settings?

17 A. Far less.

18 Q. If in the lung tissue of Mr. Krik there wasn't any reported
19 asbestos fibers, does that mean he could not have a diagnosis
20 of an asbestos-related disease?

21 A. No, it does not. As I mentioned very early today, there
22 are different kinds of asbestos. One of the fiber types,
23 chrysotile, the most common one, the one that Mr. Krik clearly
24 had exposure to, does not stay in the lungs very long. It --
25 what we call half life, half of it disappears on the order of

1 about 90 days. The amphiboles, the other types, stay around
2 for two or three years.

3 So if he stopped being exposed in 1982 and he had his
4 lung out in 2008, a lot of that asbestos would have
5 disappeared. And it also depends on which laboratory does the
6 testing. There's no standard methodology for the testing of
7 asbestos. And some labs, in my opinion, are reliable, and some
8 labs are totally unreliable because of the techniques they use.

9 So I don't know if he had such a testing done, but
10 just the fact that somebody says they didn't find asbestos
11 doesn't really mean anything. Again, the much more important
12 criteria is a history of exposure, not what you find in the
13 lung.

14 Q. Are you familiar with something along the lines of a
15 standard of 5 million particles per cubic foot in asbestos
16 cases?

17 A. Yes, it's --

18 MR. CASMERE: Objection, Your Honor. This is beyond
19 the scope of the witness' Rule 26.

20 THE COURT REPORTER: I'm sorry?

21 MR. CASMERE: This is industrial hygiene. This is
22 beyond the scope of the witness' Rule 26.

23 MR. McCOY: He can say he knows about it.

24 THE COURT: Right. I'll let the witness answer this
25 question but --

1 BY THE WITNESS:

2 A. Yes, I know about it. As an occupational physician, that's
3 the kind of thing you learn.

4 BY MR. McCOY:

5 Q. And this was a standard that was in place back in the 1940s
6 and '50s? Is that where you have learned about it?

7 A. In some places, it was a standard. In some places, it was
8 a recommendation. There were no federal government uniform
9 standards before OSHA, which was 1992 when they started putting
10 standards that were universal for the United States in place.

11 So some jurisdictions had standards that they
12 adopted. Some simply went by recommendations, and the
13 recommendations came from an organization called the ACGIH,
14 American Conference of Governmental Industrial Hygienists.

15 Q. So from your perspective as an occupational physician,
16 based on your knowledge and history, and was that a standard or
17 a guideline, the 5 million particles per cubic foot, that was
18 intended to protect persons from getting cancer?

19 A. No, it was not.

20 Q. Does it -- in terms of asbestos diseases, does it take more
21 or less or what's the comparison between asbestosis to get that
22 disease and lung cancer?

23 A. It takes far more asbestos to develop asbestosis or pleural
24 plaques. There's actually something we call "the threshold."
25 You have to pass a certain amount before you'll see those.

1 That's not true for cancer where even, as we've
2 already talked, very small amounts can cause cancer. And that
3 5 million particles number was never intended to protect
4 against cancer.

5 Q. Charles Krik has not had any lung cancer recurrence since
6 that lung removal operation in 2008. Does that mean he's
7 forever cured of lung cancer?

8 A. No, it doesn't mean he's forever cured. He's obviously
9 doing very well. It's a long period of time. But five-year
10 survival is generally less than 15 percent or about 15 percent.
11 He's managed to get past five years. He hasn't yet gotten to
12 ten years, so we don't quite know what the future will bring.

13 But he had an early stage, and he's obviously doing
14 well. With regard to his cancer, though, it clearly has
15 compromised his breathing.

16 Q. Is someone who has developed one asbestos-related cancer
17 any more likely to develop mesothelioma than would persons in
18 the general population?

19 MR. CASMERE: Objection, Your Honor. This is beyond
20 the scope. This is also a Rule 26.

21 THE COURT: That objection is sustained.

22 BY MR. MCCOY:

23 Q. If the life expectancy charts that the U.S. Government puts
24 out -- you are familiar with those, right?

25 A. Yes.

1 Q. Okay. If those charts showed that Mr. Krik had 9.6 years
2 to live based on his current age, is there any reason to
3 believe that he would -- his situation would be different based
4 on his medical records?

5 A. I think so, yes.

6 Q. And what would be the difference?

7 A. Given that he's had lung removal, that he's on chronic
8 oxygen, I think that would be very optimistic to think that he
9 would still be with us on the average of 9.6 years.

10 Q. If Mr. Krik quit smoking in 1982, 26 years before he got
11 the cancer, does that time gap there make it more or less
12 likely that he would develop the lung cancer?

13 A. It would have made it far less likely that he would have
14 developed lung cancer, but it wouldn't have eliminated the
15 totality of his risk, for two reasons. One, it wasn't yet long
16 enough to say that there was no role of his smoking; and
17 secondly, no matter how long he would have given up cigarettes,
18 the fact that he'd been exposed to asbestos would have put him
19 at an increased risk.

20 There's scientific evidence that if you work with
21 asbestos and give up cigarette smoking -- Selikoff showed this;
22 Markowicz has shown it in his papers -- if you give up smoking,
23 the longer you give up smoking, the lower your risk of
24 developing lung cancer becomes. However, for those people that
25 have had exposure to asbestos, you do not go down as much as

1 someone who only smoked and gave it up. You go back to what's
2 essentially the baseline of just asbestos exposure.

3 So you can give up cigarettes. He did. It lowered
4 his risk, but he still had the existing risk of his prior
5 exposures to asbestos.

6 Q. Have you studied a couple other papers on this just to --

7 A. I've studied many papers on this and a lot of things.

8 Q. The paper by Peto?

9 A. Yes.

10 Q. That's -- let's see the date. This is a 19 -- well, it's
11 2000.

12 A. That's another paper that speaks to the reduction in risk
13 of getting lung cancer with a reduction in smoking after
14 asbestos exposure.

15 MR. McCOY: Dr. Frank, I've gone through those notes
16 of mine here, and I think that's all the questions I've got for
17 you now. Thank you.

18 THE WITNESS: You're very welcome.

19 THE COURT: For the defense?

20 MR. CASMERE: Good afternoon.

21 CROSS-EXAMINATION

22 BY MR. CASMERE:

23 Q. Good afternoon, Dr. Frank.

24 A. Good afternoon.

25 Q. Welcome to Chicago.

1 A. Thank you. It's a nice city.

2 Q. Thanks for coming. Do you mind if I ask you a few
3 questions?

4 A. That's why I'm here.

5 Q. Okay. You never looked at any of Mr. Krik's x-rays?

6 A. No.

7 Q. You never looked at any of Mr. Krik's CT scans?

8 A. Correct.

9 Q. You never looked at any of Mr. Krik's PET scans?

10 A. Correct.

11 Q. You never looked at any tissue taken from Mr. Krik?

12 A. I'm not a pathologist. I wouldn't know how to interpret
13 the tissue.

14 Q. You're --

15 A. I have to rely on the pathologist's report.

16 Q. You're not a radiologist either?

17 A. I'm not a radiologist.

18 Q. There's actually a test you can take to interpret B --
19 x-rays to give an occupational disease opinion under the NIOSH
20 B-reader program, right?

21 A. Something called a B-reader exam. I took it once in 1983.
22 Half the doctors like myself don't pass it when they first take
23 it. I never took it again.

24 I've published in the peer-reviewed literature on
25 reading x-rays, but I'm not a B-reader.

1 Q. You took it and failed it?

2 A. Yes.

3 Q. You're not a treating physician for Mr. Krik?

4 A. I am not.

5 Q. You do not feel that you have a physician-patient
6 relationship with him?

7 A. I do not.

8 Q. You never talked to him, have you?

9 A. I have. I talked to him earlier today when I first met
10 him.

11 Q. Before today, you never talked to him?

12 A. Before today, I had not. I had read his depositions, so he
13 spoke to me about his case but through paper.

14 Q. You've never talked to any of his treating physicians?

15 A. No.

16 Q. You play no role whatsoever in his treatment or his
17 diagnosis from a standpoint of his treating physicians?

18 A. As you just pointed out, I'm not one of his treating
19 physicians.

20 Q. Your only role here is that Mr. McCoy has hired you to give
21 expert opinions?

22 A. Yes, sir.

23 Q. In order to do that, they gave you about 100 pages of
24 medical records, right?

25 A. I forget how many. They gave me medical records, which I

1 reviewed.

2 Q. Do you have your file up here that was marked at your
3 deposition?

4 A. Maybe. I have my deposition transcript.

5 MR. CASMERE: May I approach, Your Honor?

6 THE COURT: You may.

7 BY MR. CASMERE:

8 Q. Dr. Frank, I've handed you what was marked as Exhibit, I
9 think, 6 to your deposition, which I believe was your file that
10 you had on Mr. Krik?

11 A. I believe it was also.

12 Q. The last half of that file is the deposition transcripts of
13 Mr. Krik, right?

14 A. Yes, sir.

15 Q. The first half is some medical records --

16 A. Medical records, yes.

17 Q. -- that were provided to you by Mr. McCoy?

18 A. Yes.

19 Q. I tabbed one in there.

20 A. Yes, sir.

21 Q. That's a medical record about a report from a doctor in
22 October of 1997, right?

23 A. Yes.

24 Q. And in that report, that doctor says that Mr. Krik told him
25 he was exposed to asbestos as recently as two days ago, right?

1 A. The record speaks for itself.

2 Q. Is that what it says?

3 A. I'll read the sentence. It may or may not be true, but
4 this is what it says. "He indicates that he's been exposed to
5 asbestos as recently as two days ago."

6 Q. And that was written in October of 1997?

7 A. It was.

8 Q. You can close that.

9 A. Could I have the rubber band so it doesn't go flying all
10 over?

11 MR. CASMERE: Yes. May I?

12 THE WITNESS: You can have it back even.

13 MR. CASMERE: I'll take it. Teamwork.

14 BY MR. CASMERE:

15 Q. Asbestos diseases of the lungs are permanent, right?

16 A. Not all of them. Most of them.

17 Q. Which ones aren't permanent?

18 A. Benign asbestotic pleural effusions. They come; they go;
19 they can come back.

20 Q. The pleura is the saran wrap that you described, right?

21 A. Yes, sir.

22 Q. That's not the lung tissue?

23 A. No.

24 Q. What you just said is not permanent are effusion which are
25 liquid that fills into that pleural space, right?

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1 A. Caused by irritation of the pleura.

2 Q. And then it can go away?

3 A. It can.

4 Q. That type of irritation is also caused by a lot of things
5 other than asbestos?

6 A. Yes.

7 Q. But the plaque, pleural plaque, once --

8 A. That's permanent.

9 Q. -- it's there, it doesn't go away?

10 A. That's permanent.

11 Q. Asbestosis, the scarring of the lungs, once it's there, it
12 doesn't go away, right?

13 A. Correct.

14 Q. Mr. McCoy showed you some medical records. I'd like to do
15 some of that as well. I want to show you this one that
16 Mr. McCoy showed you, which was Krik No. 5.

17 A. Correct.

18 Q. And you talked about the emphysema that was seen in this
19 chest x-ray dated January 20, 2003, right?

20 A. Yes.

21 Q. That is five-and-a-half years before he was diagnosed with
22 lung cancer?

23 A. Yes.

24 Q. Is there a report in there -- there's no report in there
25 that says he has asbestosis?

1 A. It does not say that.

2 Q. There's no report in there that says that they see pleural
3 plaque?

4 A. Not on that report.

5 Q. Asbestos-related scarring, the asbestosis is usually
6 bilateral on both lungs, right?

7 A. So I earlier testified.

8 Q. Because when the asbestos goes in, it doesn't decide to go
9 left or right; it goes both places?

10 A. Correct.

11 Q. So when you usually see asbestosis, it's bilateral?

12 A. Yes.

13 Q. When you usually see asbestos-related pleural plaques, it's
14 bilateral?

15 A. Yes.

16 Q. Scarring of the lungs from asbestos is -- you said it was
17 collagen that was sort of built up around the gas exchange
18 area?

19 A. There's a cell called "the fiber blasts," and it -- it
20 turns on other cells to produce collagen, which is what's the
21 scar tissue.

22 It's not very different if you cut yourself in the
23 kitchen with the knife and you get a little scab there. It's
24 the same kind of tissue. It falls off on the skin, leaving you
25 with normal skin, but once it occurs in the lung, it's

1 permanent.

2 Q. It actually adds more tissue to the area?

3 A. Yes.

4 Q. And that's the scarring?

5 A. Yes.

6 Q. Atelectasis is actually the collapse of the lung space,
7 right?

8 A. So I testified earlier.

9 Q. It's totally different than asbestosis?

10 A. Yes.

11 Q. And there's something called discoid atelectasis, which
12 people will see on an x-ray where there's a collapse of the
13 lung, and the x-ray it looks like a disc because of the shape
14 or the angle at which they take the picture, right?

15 A. That's how it gets the name.

16 Q. Right. So you agree with me that no asbestosis and no
17 pleural plaques as of January 20th, 2003, per this x-ray?

18 A. That one report makes no such documentation.

19 Q. The next one he showed you was Exhibit 4, September 21,
20 2004, right?

21 A. Yes.

22 Q. Right here, this linear fibrotic strands in the lung bases?

23 A. Yes.

24 Q. That's also a way to describe atelectasis, correct?

25 A. No. Fibrotic means scar tissue. Atelectasis, as you

1 pointed out, is a collapse. They look the same, but you
2 wouldn't use the term "fibrotic" to describe atelectasis.

3 Q. If you looked at -- if the radiologist looked at it and
4 thought it was scar tissue, they would say fibrosis; if they
5 thought it was atelectasis, they would say that --

6 A. That's right.

7 Q. -- depending on their interpretation?

8 A. Exactly.

9 Q. Right. But if it's a scarring, it doesn't go away?

10 A. That would be true.

11 Q. This pleural thickening, that's what you talked about where
12 the pleura can be inflamed from something like an effusion or
13 something else, right?

14 A. Well, I didn't say -- there are things that will give you a
15 thickened pleura. Some infections will do it. Trauma will do
16 it. But bilaterally, it's usually asbestos.

17 Q. Pneumonia will do it?

18 A. It can, but usually on one side, and it's very rare.

19 Q. But if it's asbestos-related pleural thickening, it doesn't
20 disappear? Do you agree with that?

21 A. Usually not, and we have pathologic evidence that it's
22 actually there.

23 Q. My question was, does it disappear if it's asbestos
24 related?

25 A. No.

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1 Q. Now I want to show you a record that he didn't show you,
2 Owens-Illinois 1018.

3 MR. CASMERE: May I approach, Your Honor?

4 THE COURT: You may.

5 BY MR. CASMERE:

6 Q. I'll give you one.

7 A. Thank you.

8 Q. This is a CT scan report from February 2005, correct?

9 A. Yes.

10 Q. That is a little more than three years before he was
11 diagnosed with lung cancer, correct?

12 A. Yes.

13 Q. The CT scan of the chest was done with one millimeter
14 cuts --

15 A. Yes.

16 Q. -- correct? Is that correct?

17 A. That's what it says.

18 Q. The examination shows hyperaeration of the lungs consistent
19 with a chronic obstructive lung change -- changes. There was a
20 nodule at the left lung base approximately 8 millimeters in
21 size. It has two to three lucent centers adjacent to it and
22 within it. They are unlikely, therefore, to be malignancy.
23 There is probable scar tissue or dilated bronchi adjacent to
24 each other. Most likely bronchiectasis.

25 Bronchiectasis, that's not asbestosis?

Frank - cross by Casmere

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1 A. No.

2 Q. Other bronchi throughout the lower lobes do not show
3 dilation, but they do have slightly thickened walls consistent
4 chronic bronchitis.

5 That's one form of COPD, correct?

6 A. Right.

7 Q. There are no pleural plaques or pleural calcifications or
8 diaphragmatic calcifications as seen in asbestos exposure,
9 correct?

10 A. That's what it says.

11 Q. Under the impressions, the findings are consistent with
12 chronic obstructive lung changes and some mild chronic
13 bronchitis. Nodule at the left lung base, probably area of
14 bronchiectasis, although scar tissue from previous inflammatory
15 process could produce these findings.

16 Number two, the larger area of interstitial change --
17 the interstitial is the working tissue of the lung, right?

18 A. Yes.

19 Q. Interstitial in the lingula consistent --

20 A. Lingula.

21 Q. I'm sorry?

22 A. Lingula.

23 Q. I knew I couldn't make it through this without
24 mispronouncing one of these.

25 -- the lingula --

1 A. Right.

2 Q. -- consistent with scar tissue. Similar changes were seen
3 on the chest film of 2003. No pleural masses or plaques or
4 thickening or calcifications are seen as in asbestosis. The
5 lung findings are therefore nonspecific and could be due to any
6 cause of chronic bronchitis, bronchiectasis, or chronic
7 obstructive lung disease, correct?

8 A. Yes.

9 Q. I want to show you another record that I don't believe you
10 were shown this morning. This is Owens-Illinois 343-A. It is
11 also Plaintiff's No. 11.

12 It is -- can you see that okay, Doctor?

13 A. I do.

14 Q. It is a chest x-ray report from November 12, 2008, correct?

15 A. Yes.

16 Q. That's right around the time when he's having his surgery?

17 A. Yes, that's the admission on which he had his surgery.

18 Q. Right. I highlighted something on here. The lungs are
19 otherwise clear, and therefore, no pleural effusions, right?

20 A. That's what it says.

21 Q. Is there any notation on here of asbestosis?

22 A. No, there was never a notation on any x-ray of asbestosis.

23 Q. You agree that Mr. Krik does not have the disease
24 asbestosis?

25 A. If you read my report, I did not say that he had

1 asbestosis. It never says that in my report. I never agreed
2 that he did. I wrote that I believed he had asbestos-related
3 pleural disease or pleural asbestosis.

4 Q. You agree that he does not have asbestosis?

5 A. He does not have parenchyma asbestosis. I -- the
6 possibility exists, but it didn't rise to a level of certainty
7 that I wrote it in my report.

8 Q. And it's not in any of the chest x-rays or CTs I've showed
9 you so far in my cross-examination, right?

10 A. Correct.

11 MR. CASMERE: Your Honor, consistent with the other
12 records, I would move for admission of 343-A and 1018.

13 MR. McCOY: No objection, Judge.

14 THE COURT: They're admitted.

15 (Owens-Illinois 343-A and 1018 received in evidence.)

16 BY MR. CASMERE:

17 Q. One more, Doctor. Owens-Illinois 618, is it okay with you,
18 Doctor, if I just put it on the screen?

19 A. Sure.

20 Q. This is a chest CT from June 19, 2013, correct?

21 A. Correct.

22 Q. That is several years after his lung cancer diagnosis and
23 after his surgery, correct?

24 A. Yes.

25 Q. The findings: Previously seen reticular nodular densities

1 in both lungs, especially the right, have resolved, correct?

2 A. That's what it says.

3 Q. Later on I highlight: There is some emphysema change in
4 both upper lungs, correct?

5 A. That's what it says.

6 Q. No diagnosis of asbestosis, no diagnosis of pleural
7 plaques, correct?

8 A. No, there's no comment on the pleura at all, so you don't
9 know what the radiologist thought, saw, or included in what he
10 thought was important.

11 Follow-up for lung cancer, which is why he was asked
12 to look at the x-ray, does not imply that he should
13 necessarily -- I would think he should, but they don't always
14 report on the pleura.

15 Q. Does he report --

16 A. He does not.

17 Q. -- pleural plaques?

18 Did you look at this x-ray?

19 A. I did not.

20 MR. CASMERE: I move for admission of 618.

21 THE COURT: Any objection?

22 MR. McCOY: No objection.

23 THE COURT: It's admitted.

24 (Owens-Illinois 618 received in evidence.)

25

1 BY MR. CASMERE:

2 Q. You talked about cigarettes a little bit. You said 30 to
3 40 carcinogens in cigarettes. It's actually about 69 or 70,
4 correct?

5 A. It depends who you read. It varies, but there's certainly
6 many of them, dozens. How's that?

7 Q. I told the jury yesterday morning there were 69. Would you
8 quibble with that?

9 A. I don't recall exactly that number. I've got a book at
10 home on lung cancer and cigarette smoking that talks about 36
11 or 40. You know, it's all in the same ballpark. There's a lot
12 of different cancer-causing agents in cigarettes.

13 Q. Well, I want to make sure that no one accuses me of saying
14 something to the jury that's not true.

15 So do you know what the Surgeon General says about
16 how many --

17 MR. McCOY: I object. It's argumentative.

18 THE COURT: The objection to the form of the
19 question, to the extent it wasn't even a question, it was just
20 a statement, is sustained.

21 BY MR. CASMERE:

22 Q. Do you know what the Surgeon General says about how many
23 carcinogens there are in cigarettes?

24 A. Specifically, no.

25 Q. Would you dispute the fact that they say that there's 69 or

1 70?

2 A. No.

3 Q. Okay. Half a pack of cigarettes a day, every day for 30
4 years would be a 45-pack-a-year smoking history, right?

5 A. Half a pack a day?

6 Q. I'm sorry.

7 A. A pack and a half a day would be.

8 Q. A pack and a half a day --

9 A. Yes.

10 Q. -- every day for 30 years, that would be 45 --

11 A. Right, the math was wrong the first time. You got it right
12 now.

13 Q. Math was never my strong suit.

14 You would consider that a significant smoking
15 history?

16 A. Yes.

17 Q. Do you agree with the Surgeon General in terms of the fact
18 that about half a million Americans will be -- will die because
19 of smoking this year?

20 A. Yes.

21 Q. And that's roughly about 1,300 a day or 1 every minute,
22 right?

23 A. Cigarette smoking is the largest contributor to death in
24 the United States, because more people smoke compared to the
25 other exposures that people get.

1 Q. So it's about 1,300 people a day, you agree?

2 A. I didn't do the math. I'll trust that you got it right.

3 Q. Thank you. Even though we just established my math is not
4 my strong suit, you trust me on that.

5 You were asked about the life expectancy charts?

6 A. Yes.

7 Q. Some of the other things that impact Mr. Krik's life
8 expectancy would be his COPD?

9 A. Yes.

10 Q. His history of high blood pressure?

11 A. Not if it's well controlled.

12 Q. How about coronary artery disease?

13 A. It depends if it's controlled or not and if he's having
14 symptoms.

15 Q. There are other conditions that he has that are completely
16 unrelated to smoking or asbestos that may impact his life
17 expectancy in a negative way, correct?

18 A. Which ones are you thinking about? Heart disease is
19 related to smoking. What other ones are you thinking about?

20 Q. Are -- do people who are above the average body weight, are
21 they expected to live as long as people who are at the average
22 body weight?

23 A. It depends on how much above. I'm overweight. He's a
24 bit -- he could do like I could with losing a few pounds, but
25 he's probably more sedentary than he used to be.

1 Q. Does a history of having prior cancers impact your life
2 expectancy as well?

3 A. It depends on what kind of cancer and what his status is.
4 You know, he seems to be cured of his penile cancer, and he's
5 done very well with his lung cancer.

6 You know, I think it's probably less likely than more
7 likely that it will be the cause of his death ultimately.

8 Q. Now, you've called yourself an academic physician, right?

9 A. Yes.

10 Q. You don't really see patients that much anymore, correct?

11 A. Not anymore. I've certainly seen patients all my life. I
12 still do clinical research. I still evaluate records. I
13 consult with colleagues, but I don't see a lot of patients.

14 My home base, if you will, is at a school of public
15 health even though I'm also a professor of medicine, but I get
16 paid to do the public health side of things.

17 Q. You've seen in the last ten years, average, about one or
18 two patients a year?

19 A. That's probably about right.

20 Q. You said that there were no federal regulations that
21 adopted the threshold limit values before OSHA?

22 A. Not that I'm aware of.

23 Q. The Navy adopted the threshold limit values when they
24 adopted the Walsh-Healey Act in the 1950s, correct?

25 A. Yes, but I don't think of that as federal regulations that

1 apply to all the states.

2 Q. It certainly applied to the Navy?

3 A. It applied to the Navy.

4 Q. You mentioned that you worked for the company that
5 manufactured Kaylo?

6 A. Yes.

7 Q. That's Owens-Corning Fiberglas?

8 A. Yes.

9 Q. You never worked for Owens-Illinois?

10 A. No, I can't -- you know, it was either an O-I or O-C lawyer
11 that hired me to testify on behalf of the company. And I was
12 sitting here trying to remember was it O-I or O-C, and I just
13 can't remember.

14 I mean, the product was made and used -- it was made
15 by one company and used by another, and then they bought the
16 first one, I understand.

17 Q. You've talked about this -- the idea that the threshold
18 limit value was not designed to protect against cancer.

19 There was a thought that was well published in the
20 1950s that if you protected against asbestosis, you would
21 protect against cancer, correct?

22 A. I'm not aware that that necessarily was the case. What I
23 remember is Herb Stokinger, who eventually ended up working for
24 NIOSH, who in 1956 wrote that the levels of protection were
25 designed for asbestosis and that if you were going to protect

1 for cancer -- and he wrote this in 1956 -- the levels should be
2 100 to 500 times lower. That's what I recall from that era.

3 Q. You talk about Dr. Hueper?

4 A. No. Dr. Stokinger.

5 Q. No, no. In the direct examination, you mentioned
6 Dr. Hueper --

7 A. I did talk about Dr. Hueper. He wrote a book in 1942
8 calling asbestos the carcinogen for the lung.

9 Q. He also published articles in the 1950s and the 1960s --

10 A. He did.

11 Q. -- that said asbestosis was a prerequisite to getting lung
12 cancer, correct?

13 A. He did write that, because the cases that he saw back in
14 the '40s all had asbestosis.

15 Q. But he published in the literature, as did others, that
16 asbestosis was a prerequisite to getting lung cancer, at least
17 at that time in the '50s and '60s, correct?

18 A. Right, that's what he wrote. And he turned out to be
19 wrong.

20 Q. Now, you also mentioned Dr. Roggli --

21 A. Yes.

22 Q. -- and this question about asbestosis?

23 You're familiar with Dr. Roggli's textbook?

24 A. Yes. I get shown it a lot by folks like yourself.

25 Q. People like me, right.

1 You're familiar with his position on whether you need
2 asbestosis as a prerequisite to getting lung cancer, right?

3 A. Sure, I'm aware of his old position, and I'm aware of his
4 new position. His old position in about 1990 was you didn't
5 need it. Now he says you need it.

6 Q. You certainly respect Dr. Roggli?

7 A. Not especially, no.

8 Q. But you certainly would acknowledge that he has a textbook
9 on asbestosis-associated diseases, right?

10 A. You can have a textbook. That doesn't mean you earned
11 someone's respect.

12 Q. Has he testified for plaintiffs in this litigation?

13 A. In the past, he did some. He predominantly now testifies
14 for defendants, and he -- I'll just leave it at that.

15 Q. Okay. You're aware that in his textbook -- well, strike
16 that. We'll leave Dr. Roggli alone.

17 You mentioned Dr. Selikoff and Dr. Markowicz and
18 their publications on this, quote/unquote, "synergy," right?

19 A. Yes.

20 Q. And the --

21 A. And the Surgeon General.

22 Q. The chart that you were shown by Mr. McCoy was this one?

23 A. Yes.

24 Q. All right. Now, first of all, Dr. Markowicz couldn't get
25 the same numbers that Dr. Selikoff got, right?

1 A. He wasn't looking at the exact same population. These were
2 the survivors who lived a lot longer than the insulators who
3 died earlier. It's a different group.

4 Q. Well, he looked at the same group of insulators, but he
5 looked at that group and the people who died from 1981 through
6 2008?

7 A. And Selikoff looked at them from about 1960 -- the early
8 '60s to '91. So there's a little bit of overlap. But the ones
9 that died earlier of lung cancer, perhaps, are not the same
10 ones that died later of lung cancer or other things.

11 Q. But it's the same cohort of insulators --

12 A. It's the same group, but there's -- you know, just like
13 there is something called the healthy worker effect, the people
14 who work are generally healthier than people who don't work,
15 there are survivors and cohorts who end up having a different
16 experience than the rest of the cohort.

17 Q. But these --

18 A. But it is the same -- it's originally the same group.

19 Q. But these weren't healthy workers. This was a mortality
20 study. These were gentlemen that passed away?

21 A. Right, there were 2,200-and-70-some-odd deaths.

22 Q. And what Dr. Markowicz actually found was that for the
23 group of people who had asbestos exposure but supposedly no
24 asbestosis, that their risk was 3.6, right?

25 A. I'd have to look at the numbers.

1 Q. I have it for you.

2 A. Yeah, I mean, they had an elevated risk compared to
3 nonsmoking/nonasbestos workers.

4 Thank you.

5 Q. I handed you Owens-Illinois Exhibit 46 for identification,
6 Doctor. This is the study we're talking about?

7 A. Okay.

8 Q. So if you turn to the -- it's page 93.

9 A. Page?

10 Q. In the upper right-hand corner, it's got the bar charts?

11 A. Yes.

12 Q. This is what we're looking at. What he found is this group
13 of people without asbestosis but the insulators had an
14 increased risk of 3.6, correct?

15 A. So they had a three-and-a-half times increased risk with
16 asbestos exposure without asbestosis. Just from asbestos.

17 Q. That's what he says there, right?

18 A. Right.

19 Q. And he uses as the risk for smoking a modified CPS II,
20 which is the Cancer Prevention Study II number, of 10.3,
21 correct?

22 A. Right, the earlier Selikoff paper had 10.6. This is
23 essentially the same but obviously slightly different.

24 Q. But the actual Cancer Prevention Study number is about 23
25 times, but they did a subsection of that for this study,

1 correct?

2 A. Well, the 23 times is, I think, for a two-pack-a-day
3 smoker.

4 Q. And the current Surgeon General number is about 25 times
5 for that?

6 A. Again, I think for that level of smoker.

7 Q. So what he found -- what he used is that for smoking, the
8 insulators, because these are all insulators, right, the risk
9 from smoking was 10.3, but for the insulators without
10 asbestosis and who didn't smoke or didn't smoke regularly,
11 their risk was 3.6?

12 A. It's three-and-a-half times more than somebody without
13 either exposure showing that --

14 Q. And smoking was three and a half -- was almost three times
15 that of the asbestos exposure, right?

16 A. About that.

17 Q. Okay. And then over here, he has insulators without
18 asbestosis --

19 A. Right.

20 Q. -- but who were smokers, and they are 14.4, right?

21 A. Right.

22 Q. So 10.3 and 3 -- it's barely additive, correct?

23 A. Yes.

24 Q. And so even in this group of smokers who were insulators,
25 union insulators, their combined risk was 14.4, and it was only

1 10 if they were just a smoker, and it was only 3.6 if they were
2 a smoker or exposed to asbestos but not a smoker, right?

3 A. That's what that number would tell you.

4 Q. So two-thirds of their risk is from smoking; one-third is
5 from the asbestos exposure, right?

6 A. That is one way to interpret that.

7 Q. And he didn't get a multiplicative or even a
8 supra-additive; it's barely additive, right?

9 A. Well, if you look at the other data, some of it was
10 multiplicative or supra-additive, not for that specific group.

11 Q. But these are supposedly gentlemen who do not have
12 asbestosis, right? The people who have asbestosis, they're in
13 a completely different category?

14 A. They have a different set of numbers.

15 Q. Right. With asbestosis, they're way up here, right?

16 A. Right.

17 Q. Now, Mr. Krik would never be accepted to be in this cohort
18 because he's not a union insulator, right?

19 A. No, he was a boilermaker.

20 Q. So he would not be accepted to be in this cohort?

21 A. It's a different group.

22 Q. So he would not be accepted --

23 A. He's not a member of this union, so he was not part of that
24 cohort.

25 Q. Okay. And he couldn't get in -- if it was an academic

1 study, they wouldn't let him in? That's how epidemiology
2 works, right?

3 A. Right, I mean, if you're studying insulators, he's not an
4 insulator. He wouldn't be part of the group. That's pretty
5 self-evident.

6 Q. So in 2013, Dr. Markowicz looked at the same group of
7 people. He couldn't come up with the same numbers as
8 Dr. Selikoff, and he also said that there were some serious
9 limitations with his study, right?

10 A. Right.

11 Q. Now, Dr. Markowicz is a gentleman who, like you, testifies
12 for plaintiffs in asbestos litigation?

13 A. Yes.

14 Q. Can you show me in his article where he disclosed that?

15 A. It may not be here. It depends on what the journal
16 requests of the authors.

17 Q. Don't you think that that's something that should be in a
18 peer-reviewed published literature is a disclosure --

19 A. Wait, wait, wait, wait. Okay. It doesn't say it here, but
20 it does say -- and let's be fair to him -- "Author disclosures
21 are available with the text of this article at
22 www.atsjournals.org."

23 So if you've printed that out, I presume you'll find
24 that he said that he testified for plaintiffs.

25 Q. You think that's what he would have said, right?

1 A. I would have thought. Now, if you have it and you can show
2 it to me and he doesn't, you know, then you have to ask him why
3 it's not there.

4 I put down on the articles now that I publish that
5 have to do with asbestos, where it's appropriate, not like in a
6 textbook because that's a different kind of setting, that I
7 testify primarily for plaintiffs.

8 Q. But you haven't looked at that website to see --

9 A. I did not look at the website.

10 Q. Okay.

11 A. But I know Dr. Markowicz, and I know that's what he does.
12 So I take that into account when I look at his data.

13 Q. Now, a couple of things that he noted about the notable
14 limitations of his study, it's on page 94, Doctor, right-hand
15 column, bottom right.

16 A. Okay.

17 Q. He says that this study has some notable limitations,
18 smoking status, and then the second one is a misclassification
19 of asbestosis, right?

20 A. That's what it says.

21 Q. And if you look at the front of the article, what they did
22 was is they looked at the smoking status between 1981 and 1983,
23 and then they stopped, right?

24 A. That's the only data they had.

25 Q. And they looked at the asbestosis data from looking at

1 x-rays from 1981 to 1983, and then they stopped?

2 A. That's the data they had.

3 Q. And they didn't look for anything after 1983 for smoking or
4 x-ray changes or pathological changes to see if these people
5 actually had asbestosis?

6 A. The study that they carried out was a death certificate
7 study. They didn't go back and examine those individuals as we
8 had done for decades with Dr. Selikoff, that's correct.

9 Q. And Dr. Kippen in 1987 went back and looked at
10 Dr. Selikoff's cohort, and what he found was that when they
11 looked at the pathology of those insulators that they thought
12 did not have asbestosis on x-rays --

13 A. They had it pathologically.

14 Q. -- they had it pathologically, right?

15 A. Right.

16 Q. A hundred percent?

17 A. Well, they didn't have everybody's case, but the ones they
18 had, yes.

19 Q. Right.

20 A. But radiologically, it was absent.

21 Q. That was published in 1987, knowing that you can't rely
22 just on those x-rays for this group of insulators; you got to
23 look at their pathology to determine if they have asbestosis?

24 A. If you've got pathology. You don't go around taking tissue
25 out of people to carry out your studies. When they did have

1 tissue, they looked at it, just as they looked at Mr. Krik's
2 tissue when he had his lung out.

3 Q. And this column right here, that's based on seven people in
4 this study?

5 A. Okay. That's because most insulators ended up with
6 asbestosis.

7 Q. If these people -- if a couple of these individuals
8 actually ended up having asbestosis, if they would have looked
9 at their pathology a couple years later, they wouldn't be in
10 this column; they'd be over here in the asbestosis column?

11 A. We could speculate about all kinds of things, if, if, but I
12 don't know. But --

13 Q. But --

14 A. -- if that would be the case -- and, again, they say, you
15 know, it could be misclassified. Some others may deserve to go
16 back the other way, too. So the data is what the data is.

17 Q. And the point is, is that if these numbers are wrong, this
18 number is wrong; and if it's lower, this number is lower,
19 right?

20 A. Right. If it's wrong.

21 Q. If it's wrong?

22 A. I don't know that it's wrong.

23 Q. And if the smoking numbers actually should be higher, maybe
24 at 15 or 25, right?

25 A. We could speculate all you want.

1 THE COURT: Dr. Frank, as tempting as it is to take
2 issue with the way the question may be asked, it's better
3 off -- we're all better off if you just answer the question.

4 THE WITNESS: Okay. Yes, your Honor.

5 THE COURT: If there's an issue that needs
6 clarification, another lawyer can ask clarification questions.

7 THE WITNESS: Okay.

8 THE COURT: But to make the examination go a little
9 bit more smoothly --

10 THE WITNESS: Yes, sir.

11 THE COURT: -- take the question that's being asked
12 of you and just answer the question.

13 BY MR. CASMERE:

14 Q. And one other thing on this Markowicz study, they exempted
15 that study from review by the institutional review boards at
16 Mount Sinai and at Queens College, correct?

17 A. That's what it says.

18 Q. Going back here, to be fair to me, for somebody who doesn't
19 have asbestosis in the Markowicz column, that number is 14.4?
20 It's right here, right?

21 A. For those seven patients, yes.

22 Q. But when we're looking at this chart, to look at this
23 supposed synergistic risk of lung cancer, if you're looking at
24 somebody who smoked but didn't have asbestosis, that number is
25 right about here, fair?

1 A. Fair.

2 Q. It's a good sign my turning the pages like this.

3 I want to talk to you about your report for a minute.

4 Your report in this case was dated September 16, 2011, correct?

5 A. Yes, sir.

6 Q. Do you know how many reports you authored on that day?

7 A. On that day? No.

8 Q. I'm going to hand you --

9 A. Well, I didn't author them on that day. That's the day
10 that they were finalized and typed. So there probably were a
11 number of them, because they usually get done in batches.

12 Q. I'm going to hand you Owens-Illinois 1025, Doctor.

13 A. Okay.

14 Q. If you include Mr. Krik's report, September 16, 2011, you
15 authored an additional 11 reports to Mr. -- the Cascino Vaughan
16 law firm on that day, September 16th, 2011?

17 A. I didn't author them on that day. That was the day they
18 were approved for final signature.

19 Q. Well, you have 12 reports from September 16th, 2011 --

20 A. Which means --

21 Q. -- that go the Cascino Vaughan law firm?

22 A. -- Mr. McCoy's office got back to me and said these reports
23 are okay to be signed off on.

24 MR. MC COY: Rule 26 objection on this.

25 THE COURT: That objection is overruled.

1 MR. MCCOY: Judge, may I be heard on that briefly?

2 THE COURT: Sure.

3 (Proceedings at sidebar on the record.)

4 THE COURT: Mr. McCoy.

5 MR. MCCOY: Judge, my objection is that this violates
6 the confidentiality privilege and Rule 26 about communications
7 with retained experts. The report -- they can inquire about
8 the report, but they can't inquire about all these
9 communications, especially when they're getting into cases in
10 other courts now.

11 It may be these reports were prepared for a long
12 period of time, but this requires a lot -- this is why that
13 privilege is there, and this is a classic example of inquiring
14 into that communications with retained expert.

15 They can ask about the final study but not all this
16 other stuff, especially when you get into other cases like
17 this. Because like I said, as he's trying to explain, he
18 worked on these over a long period of time. That's the day my
19 firm said, "Okay, these final drafts are okay." And he sends
20 them all to be typed.

21 What I'm saying is, though, this is a classic. This
22 should be off limits. It's a violation of the rule.

23 THE COURT: From the defense.

24 MR. CASMERE: These are reports authored by the
25 doctor in litigation for the Cascino Vaughan firm that have

1 been filed and made Rule 26 disclosures in all these different
2 cases. There was a motion in limine that said that we can go
3 into the work with the lawyers to establish bias.

4 So this is fair game. This isn't draft reports back
5 and forth. These are the final reports that he drafted for
6 submittal.

7 THE COURT: And the point that's trying to be
8 established that he has authored many reports on behalf of
9 the -- at the request of the firm over a particular period of
10 time, that can be established as it tends to go to bias. But
11 the details of the communications back and forth -- and part of
12 the problem is that the witness doesn't wait for a question to
13 be asked, and the witness --

14 MR. McCOY: Right.

15 THE COURT: -- starts offering up additional details
16 that might stray into the exact kind of communications that the
17 plaintiff doesn't want out. That's the witness that's doing
18 that.

19 What I can do now is to admonish counsel to stay
20 clear of the communications that the witness is having in other
21 cases on substance, but if the point is just the volume --

22 MR. CASMERE: That's it.

23 THE COURT: -- and the time period --

24 MR. CASMERE: Yes.

25 THE COURT: -- you can establish that.

1 MR. McCOY: Communications, communications in this
2 case, too. I mean, it's a rule for all cases.

3 THE COURT: Understood. To the extent there are work
4 product communications between the expert and counsel, those
5 are not to be inquired of.

6 MR. McCOY: Judge, I'd appreciate it if you'd advise
7 the jury of exactly that, what you just said, the exposure --

8 MR. CASMERE: I haven't gone there yet. Hold on.
9 We're putting the cart before the horse.

10 All I've done is say that in the same day he sent
11 this report, he sent 12 other -- 11 other reports to the
12 Cascino Vaughan firm. My next thing is going to be how much he
13 did in the next year. And then I'm done.

14 MR. McCOY: That's exactly what the problem is.

15 THE COURT: He can establish the volume of work that
16 this witness does on behalf of the firm to establish his bias
17 point. I will instruct the witness to listen very carefully to
18 the question that's being asked and answer only the question,
19 and we can resume.

20 MR. CASMERE: Thank you.

21 (End of proceedings at sidebar.)

22 THE COURT: Okay. We can resume.

23 And again, Dr. Frank, I think it does become
24 important to make sure you wait for the question to be
25 completed and then just answer the question. Particularly in

1 certain areas, there may be a detail that you would like to
2 offer that would ultimately not be relevant and appropriate for
3 the jury's consideration. So I'd like you to continue to just
4 listen carefully to the question and just answer the question.

5 And counsel is also directed to limit the questions
6 and the form of the question to the appropriate areas that we
7 discussed.

8 MR. CASMERE: I forgot what my last question was,
9 Your Honor. Could I ask that it be read back for me?

10 (Record was read.)

11 BY MR. CASMERE:

12 Q. Doctor, you sent 12 reports to Mr. McCoy's firm dated
13 September 16th, 2011, correct?

14 A. Yes.

15 Q. Nine of those were for lung cancer cases, correct?

16 A. I believe so.

17 Q. Do you know how many you sent to Mr. McCoy's office in the
18 next year after that?

19 A. I have not counted them. There was a period of time where
20 I sent many back, and then it's been quite awhile since I've
21 written any new ones.

22 Q. I believe in that stack that I handed you that there are 36
23 reports to Mr. McCoy's office at Cascino Vaughan for lung
24 cancer within one year of September 16th, 2011.

25 Does that sound right to you?

1 A. It sounds as reasonable as any other number.

2 Q. Mr. McCoy's firm is not your only client from asbestos
3 firms in this litigation, is it?

4 A. No, I don't think of them as clients. But there are many
5 firms that I work with around the United States.

6 Q. You have worked in the last five years with probably 25 to
7 30 different plaintiffs' law firms in asbestos litigation,
8 correct?

9 A. That's probably accurate.

10 Q. Do you produce as many reports for those 25 to 30 other
11 firms as you do for the Cascino Vaughan law firm?

12 A. Some I do more.

13 Q. You've been providing testimony like this for about 35
14 years, correct?

15 A. A bit longer, yes.

16 Q. You have never testified in court at the request of -- on
17 behalf of a defendant in a personal injury case?

18 A. Correct.

19 Q. Ninety-nine-point-something percent of your time or your
20 testimony is for plaintiffs in asbestos litigation; is that
21 fair?

22 A. Yes.

23 Q. You generate about 400 to \$500,000 a year in billings for
24 this expert work that you do, correct?

25 A. Yes, for the university.

1 Q. You've told us that the money doesn't go directly to you;
2 it goes directly to Drexel University?

3 A. Correct.

4 Q. It goes into a fund at Drexel, correct?

5 A. Yes.

6 Q. You know the account number?

7 A. 150421.

8 Q. You have access to that?

9 A. With the approval of the dean.

10 Q. And you've told us some of the things that you spend
11 money -- that money on, correct?

12 A. Yes.

13 Q. One of the things that you spend that money on is research
14 and paying for researchers at the university, right?

15 A. Yes.

16 Q. And those researchers work on material that you end up
17 putting your name on, correct, as a co-author?

18 A. No. The person that I'm thinking of who I've supported
19 primarily to do research, I've never put my name on any of her
20 papers.

21 The only papers that I put my name on out of Drexel
22 is either research that I've done with funding from my funding
23 sources, which include the Department of Energy or the CDC.

24 I have not put my name on any papers that I have done
25 with colleagues at the university that came out of research

1 that I decided to do with these funds.

2 Q. So in 35 years of this litigation, in taking the money and
3 putting it into the institutions and using that money to pay
4 for researchers, you've never put your name on any article
5 that's been authored by somebody who you paid from that money;
6 is that your testimony?

7 A. I'm trying to think. I would pay my own way to China. I
8 didn't pay anybody in China, and we have our name on papers
9 together.

10 I'm doing work in Sri Lanka. I've never paid anybody
11 over there directly. I gave moneys to a colleague, and what he
12 did with it was probably paid some radiologists to look at
13 x-rays.

14 I don't recall that I've ever used any of that money
15 where I've paid somebody and then put my name on it where I
16 wasn't part of the research. And I can't even think of any
17 work that I've done at the universities where that was done.
18 It would usually be done with my work overseas.

19 Q. You charge \$425 an hour for your time?

20 A. Yes.

21 Q. You spend about 300 to 400 hours a year doing legal work,
22 correct?

23 A. Something like that.

24 Q. 300 hours time 425 is \$127,500, correct?

25 A. Again, I don't have a calculator, and I'll take it that

1 your math is correct.

2 Q. 400 hours times \$425 an hour is \$170,000, correct?

3 A. Yes, but I have a -- you know, as I've testified many
4 times, I have an hour minimum for looking at a chart. Some
5 charts take me an hour; some charts take me less. Every lawyer
6 I work with knows that there's a one-hour charge to look at a
7 case and write a report.

8 Q. And the point is that you bill out 400 to \$500,000, but the
9 amount of hours that you actually work is a lot less than that?

10 A. Well, it may be -- you know, it may be more than that.
11 It's been creeping up over the years. There have been more
12 trials and more depositions, which is what generates moneys,
13 too. But I certainly sometimes get multiple charts done within
14 an hour.

15 Q. But you -- if you did 400 hours at \$425 an hour, that's
16 \$170,000, correct?

17 A. Something like that.

18 Q. And you bill out -- last year, what -- you just did your
19 taxes, right? How much did you bill out?

20 A. Last year was, for asbestos litigation, other litigation,
21 reimbursement for travel, such as I'll get today because I
22 bought my own ticket, the totality was \$448,000.

23 Q. And you only worked 400 hours last year on this?

24 A. I didn't keep track of it. I don't work a 40-hour week. A
25 short week for me is 55 hours. Some weeks it's 70 or 80 hours.

1 Q. Your point is that people like Mr. McCoy know that you
2 charge that minimum and that they may be overcharged, but they
3 pay it anyway, right?

4 A. If you consider it overcharged. I've never had anybody
5 accuse me of overbilling them in 35 years.

6 Q. And they don't complain about it, right?

7 A. Nobody has ever complained.

8 MR. MCCOY: Your Honor, object again to inquiring
9 into fees.

10 THE COURT: The objection to the form of the question
11 is sustained.

12 So, ladies and gentlemen, you can disregard that last
13 question and the answer that was just given.

14 BY MR. CASMERE:

15 Q. Have they ever told you that you're charging them too much?

16 A. I've actually been told I don't charge enough. There are
17 many people who do this kind of work, first of all, that keep
18 all the money; secondly, who charge far more than I do.

19 Nobody has ever accused me of overcharging. Nobody
20 has ever said I've under -- overcharged them. People tell me
21 I'm worth more than what I charge, but obviously, I'm not doing
22 it for the money.

23 Q. Last thing, Doctor, and then you'll be done with me.

24 ADAO, Asbestos Disease Awareness Organization --

25 A. Yes, sir.

Frank - cross by Blackwell

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1 Q. -- that's an organization you're involved with, correct?

2 A. I am the co-chair of the Scientific Advisory Board. I've
3 been involved with them since 2004.

4 Q. And the other co-chair is Dr. Richard Lemen, correct?

5 A. Yes.

6 Q. He also testifies for plaintiffs in asbestos litigation,
7 correct?

8 A. Yes.

9 Q. Wasn't there just a conference last weekend?

10 A. It was last Saturday. I was there. I spoke. I gave
11 Dick's paper because he couldn't come at the last minute. I
12 gave my own paper. I introduced the keynote address-giver.

13 Yes, I was there, and I participated. And I paid my
14 own way there.

15 Q. The tag line or, I guess, the trademark or the slogan for
16 the ADAO is "Voice of the Victims," correct?

17 A. That's what it says.

18 MR. CASMERE: Thank you, Doctor. I appreciate your
19 time.

20 Thank you, Your Honor.

21 THE COURT: For Defendant Mobil.

22 THE WITNESS: Would you like your documents back?

23 CROSS-EXAMINATION

24 BY MR. BLACKWELL:

25 Q. Good afternoon again, Dr. Frank.

1 A. Good afternoon, sir.

2 MR. BLACKWELL: Members of the jury.

3 BY MR. BLACKWELL:

4 Q. My name is Jerry Blackwell, and I'm speaking on behalf of
5 Mobil in this trial.

6 I've got a copy of your report here, and with the
7 attachments, that's about 150 pages, would you say?

8 A. Something like that.

9 Q. The actual report portion, though, is about a page and just
10 a little piece onto the second page, right?

11 A. I write short reports.

12 Q. I understand that. Well, in the short report you wrote,
13 did you use the word "Mobil" in it anywhere?

14 A. No.

15 Q. When you were asked to perform an evaluation for the
16 attorney here, were you asked to do anything to evaluate Mobil
17 specific?

18 A. No. I was asked to determine what diseases I thought
19 Mr. Krik had and what I thought caused it. It doesn't matter
20 to me and it never matters to me whose product it was that may
21 have caused it.

22 Q. Well, you understand in this case, Mobil has been accused,
23 so it matters to us. Do you understand that?

24 A. I do now.

25 Q. Have you ever been to the Mobil facility in Joliet?

1 A. No.

2 Q. Now, you told us that you met Mr. Krik just -- just today,
3 right? You said hello to him?

4 A. Yes, this morning.

5 Q. So if I said hello to him yesterday, I met him the day
6 before you, right?

7 A. Yes.

8 Q. Now, do you have any knowledge whatsoever of whether
9 Mr. Krik was exposed to any asbestos above the background level
10 when he was working out there for the three weeks at the Joliet
11 facility?

12 A. If one reads his deposition, one comes to that conclusion.
13 And I confirmed that as I spoke with him this morning.

14 Q. Now, do you have --

15 A. He believed that the product he was taking out of those 25
16 or so heater units in those boxes were asbestos.

17 MR. CASMERE: Your Honor, I'm going to object that
18 this is a Rule 26 problem.

19 MR. BLACKWELL: And my question is whether he has any
20 knowledge.

21 THE COURT: This is similar to an earlier issue,
22 which is, if you just listen carefully to the question that's
23 being asked --

24 THE WITNESS: Okay.

25 THE COURT: -- the more you stray from the question,

1 Doctor, the more we're going to get into issues that might
2 complicate things.

3 THE WITNESS: Okay. Yes, sir.

4 THE COURT: So the jury will disregard the doctor's
5 last part of his answer there.

6 And let me ask counsel for Mobil to just move on to
7 the next question.

8 MR. BLACKWELL: All right. Yes, Your Honor.

9 BY MR. BLACKWELL:

10 Q. Let me clarify a couple things with respect to background,
11 and I'll try not to be repetitive, because I'm just going to
12 try to fill in some of the gaps of the previous counsel.

13 He talked with you quite a bit about your history in
14 providing testimony for plaintiffs' attorneys?

15 A. Yes, sir.

16 Q. The first case you had for a plaintiff's attorney was in
17 1977, true?

18 A. I believe that was the year.

19 Q. Since that time, you worked with over 50 different
20 plaintiffs' law firms?

21 A. Yes.

22 Q. You've been retained in over 2,000 cases?

23 A. Yes.

24 Q. You have -- in the year 2010 alone, I think you said you
25 reviewed 500 cases for plaintiffs' lawyers?

1 A. Four to five hundred probably.

2 Q. That's because you review four to five hundred a year --

3 A. Yes, so it would be more than 2,000.

4 Q. All right. How many would it be?

5 A. I've never added them up. It's thousands.

6 Q. You've done over a thousand depositions alone?

7 A. Yes.

8 Q. You've testified in trials like this over 150 times,
9 haven't you?

10 A. Yes.

11 Q. Now, is it true, Dr. Frank, that you don't have any
12 information regarding the dose of exposure from any product
13 and/or how much that dose of asbestos from any product would
14 have incrementally increased any risk of cancer?

15 A. That's two questions. I have no information about dose.
16 And not having any, I can't do a calculation, not that I've
17 ever done one like that.

18 Q. You've never attempted to do any kind of dose
19 reconstruction estimate?

20 A. No. That's a science that is built on very shaky ground,
21 according to the people who do it.

22 Q. Now, have you got any air sampling data from anywhere
23 related to --

24 A. That's a very generic question. I've seen lots of air
25 sampling data. I've seen none from the Mobil facility.

1 Q. Have you seen any that relates to any place Mr. Krik
2 worked?

3 A. No.

4 Q. Now, just the fact that somebody is in an environment where
5 there is dust doesn't mean, even if there's asbestos present,
6 that it's all asbestos dust, does it?

7 A. Of course not, not -- products are made up of a mixture of
8 things, and the dust that's created from those products will be
9 a percentage asbestos and a percentage some other material.

10 Q. So in order to know what the percentage asbestos is, you
11 have to have some kind of analytic done, don't you?

12 A. If you want to know what the amount was in either the
13 original product or the air, you can do analytics.

14 Q. Well, if you want to know if an exposure level is above or
15 below the OSHA permissible exposure limit, analytics would be
16 helpful, wouldn't they?

17 A. They'd be required.

18 Q. And the permissible exposure limit is the amount of
19 asbestos, for example, a worker might be exposed to over a
20 40-year working life and not be expected to have adverse health
21 consequences, right?

22 A. No, it doesn't say that. And the OSHA regulations actually
23 say that at the permissible level, people will still get
24 disease.

25 Q. So the OSHA, the PEL, permissible exposure limit, doesn't

1 say, as far as you're concerned, that it is the amount that a
2 worker can be exposed to over a 40-year working life and not be
3 expected to have adverse health consequences?

4 A. Well, for any individual worker, they will not be expected
5 to get it. But in populations exposed at that level, some
6 people in that environment at those levels will be expected to
7 get disease, and that's what the OSHA regulations clearly
8 state.

9 Q. I'm asking you what does -- how does OSHA define
10 permissible exposure limit, if you know? Does OSHA define --

11 A. It's a legally allowable limit for what a worker can be
12 exposed to at the workplace. It doesn't mean that it's safe.

13 Q. But doesn't OSHA say that it's a legal allowable limit a
14 worker can be exposed to over a working life and not be
15 expected to have adverse health consequences? Yes or no?

16 A. It's a legally allowable limit, but it doesn't mean that
17 it's safe.

18 Q. Would you answer my question, sir?

19 A. Yes, it says that.

20 Q. It does say that?

21 A. I believe so. I'd have to get the regulations out to see
22 if it says it exactly that way, but that's the implication of
23 what it says. It never uses the word "safe."

24 Q. But it does use the words, though, "not expected to have
25 adverse health consequences," doesn't it?

1 A. Not expected, yes.

2 Q. I'm going to talk with you about cigarettes and smoking a
3 little bit. The jury has heard quite a bit already.

4 Well, first let me ask you about asbestos. I think
5 you've told us in spades now that asbestos is a toxic mineral,
6 haven't you?

7 A. I have said that.

8 Q. And is it your view that as a toxic mineral that there is
9 no minimal level of exposure that's safe for asbestos?

10 A. No, it's not because it's a toxic mineral. It's because
11 it's a carcinogen. Not all toxic minerals are carcinogens.

12 Q. Well, cigarettes contain roughly 4,000 toxic chemicals,
13 don't they?

14 A. Yes, but they also contain 69 or 70 carcinogens.

15 Q. Yeah, we'll get through quicker if -- you answered ahead of
16 my question. You got to let me ask you the question.

17 So I think you did tell us earlier there are roughly
18 69 carcinogens in cigarette smoke?

19 A. Yes.

20 Q. Now, would you agree that if an asbestos worker is not a
21 smoker, then that worker has a very limited risk of lung
22 cancer?

23 A. I don't understand the question. I don't know what
24 "limited risk" is.

25 Q. All right.

1 A. Has an increased risk, more limited than if he was also a
2 smoker.

3 Q. Could you pull up M 104, please? Let's see what
4 Dr. Selikoff says about it. Could you go to page 9?

5 MR. McCOY: Which year is this one?

6 MR. BLACKWELL: 1967.

7 BY MR. BLACKWELL:

8 Q. Okay. We'll read together. "Among the 87 men" --

9 A. Yes.

10 Q. "Among the 87 men who did not smoke and now we're using
11 statistics based upon smoking habits in the population, there
12 should have been between zero and one cancer of the lung.
13 There were none. In other words, from 1963 to the present time
14 in 1967, and that includes up to today or up to yesterday when
15 I left New York, have yet to see a lung cancer in an asbestos
16 worker who didn't smoke."

17 Next page. This says, "Also, I didn't see a cancer
18 of the lung in an asbestos worker who smoked cigars or an
19 asbestos worker who smoked pipes if he didn't smoke cigarettes
20 at the same time."

21 So he makes a little joke. "If levity were in order,
22 I perhaps should say put that in your pipe and smoke it."

23 But here's his point. "But this information is of
24 tremendous importance. It is almost like saying that if you
25 work in a dynamite factory, you shouldn't smoke. And cancer of

1 the lung would be wiped out in your trade if you people
2 wouldn't smoke cigarettes, period."

3 Is that what Dr. Selikoff said?

4 A. That's what he said to the gathering of asbestos insulators
5 the year before he published on the synergy.

6 Q. My question is --

7 A. That's what he said. It speaks for itself.

8 Q. And he didn't say, you would wipe out all lung cancer in
9 the trade if you first stopped being exposed to asbestos.

10 That's not what he said, did he?

11 A. It speaks for itself.

12 Q. You can answer my question.

13 A. It speaks for itself.

14 Q. In 1978, he reported only four lung cancer cases out of
15 over two thousand nonsmokers in the insulation trade; isn't
16 that true?

17 A. Yes.

18 Q. So if a nonsmoker has an increased risk, then it's a very
19 limited risk, isn't it?

20 A. It's more limited than if you do smoke, yes.

21 Q. Are you aware that the World Health Organization says that
22 smoking is the -- is the cause of 95 percent of lung cancers?

23 A. I have not seen that statement. I've seen the Surgeon
24 General's statement in this country.

25 Q. All right. 90 percent then?

1 A. Or 85.

2 Q. All right. Now, you've seen a statement from no one, no
3 health organization in the industrialized world, that says
4 asbestos exposure is the cause of 85 percent of lung cancers,
5 have you?

6 A. I would never expect to see that.

7 Q. I didn't ask what you would expect.

8 I asked you what you've seen. Have you --

9 A. I've never seen it.

10 Q. Now, cigarette smoking weakens the lungs, doesn't it?

11 A. It can.

12 Q. Well, it decreases their ability to remove dust like
13 asbestos, doesn't it?

14 A. It does.

15 Q. It irritates the air passageways, doesn't it?

16 A. Yes.

17 Q. It leads to the development of more mucus in --

18 A. Yes.

19 Q. -- the respiratory system, correct?

20 A. Yes.

21 Q. And that, in turn, can block the air passageways, true?

22 A. It can.

23 Q. And if they're blocked, then that decreases the body's
24 ability to remove dust, including asbestos fibers, doesn't it?

25 A. Yes.

1 Q. So the other thing that tobacco smoke can do, it damages
2 something called the mucociliary escalator?

3 A. Yes.

4 Q. And the mucociliary escalator is what, for the ladies and
5 gentlemen of the jury?

6 A. It's the upper airways where you have mucus globules that
7 attract foreign materials, be it asbestos or bacteria or
8 viruses. And then the cilia are little hair-like cells that
9 push these up and out of the lung. You end up swallowing it.

10 Q. And the cilia are little hair-like structures, aren't they?

11 A. That's what I just said.

12 Q. And they flip about how many times a minute?

13 A. Many.

14 Q. Many as in hundreds?

15 A. Yes.

16 Q. So they represent somewhat the body's last defense
17 mechanism for keeping foreign particulate out before it can
18 make its way into the lungs?

19 A. There are other ones, too. There's macrophages, but it's
20 the main one of the upper airway.

21 Q. It's the mucociliary escalator?

22 A. Yes.

23 Q. And so when that's been damaged by cigarette smoke, it
24 makes it then easier for all types of dust to get into the
25 lungs because it's damaged?

1 A. Yes.

2 Q. Then it makes a pathway for more asbestos to get into the
3 lungs, this smoking, true?

4 A. Yes.

5 Q. And it also is the reason that the fibers can go deeper
6 into the lungs, true?

7 A. I don't know that that's ever been shown.

8 Q. So do you -- you say you just don't know or are you --

9 A. I don't know. I've never seen any data that says they get
10 deeper into the lungs because of smoking.

11 Q. Well, but the point is, when we're talking about cigarette
12 smoking, it really is a horrible gift that keeps on giving,
13 isn't it?

14 A. It can be, yes.

15 Q. Now, despite there being countless publications and
16 presentations to this day, researchers have not reported
17 another single case where there's been a mortality of an
18 asbestos worker who didn't smoke regularly; is that true?

19 A. I think Dr. Markowicz reported on some.

20 Q. Do you know or do you think?

21 A. I'd have to look at the paper. I believe he has nonsmokers
22 who got excess lung cancer.

23 Q. And so I ask about whether or not you knew of any
24 mortalities of an asbestos worker who was a nonsmoker?

25 A. The Markowicz paper has some of those individuals.

1 Q. All right. We'll take a look at it.

2 Now, so smoking is a number one cause of lung cancer
3 in the general population, and we also know it's a number one
4 cause -- it's related in lung cancers also with respect to
5 asbestos-exposed workers?

6 A. Because more people smoke than are exposed to asbestos or
7 arsenic or other things, it naturally would be the number one
8 cause.

9 Q. I'm simply asking if it is or isn't. And it is, isn't it?

10 A. Yes.

11 Q. Number one in the general population and number one for
12 asbestos-exposed workers, too, right?

13 A. Because it's the number one exposure that people in the
14 population have, yes.

15 Q. But cigarette smoking does more than that, because
16 cigarette smoking causes COPD -- it can cause COPD?

17 A. And many other diseases which your colleague asked me
18 about.

19 Q. Let's just stick with COPD for a minute.

20 A. Yes. He asked me that already.

21 Q. Well, I'm going to ask you something maybe he didn't. All
22 right?

23 Now, would you degree with me that COPD, the fact
24 that someone has COPD in addition to the smoking, is an
25 independent risk factor for developing lung cancer?

1 A. I'm not sure it's an independent factor. You don't have to
2 have COPD to get lung cancer. It's another disease that occurs
3 from cigarettes. And if you are someone who has COPD, you're
4 more likely to get lung cancer because you've had more smoking.

5 Q. Have you studied the literature to assess whether or not
6 COPD is an independent risk factor for developing lung cancer?

7 A. Not especially. I've read some of the literature, and my
8 take on it is that it represents people who smoke more are more
9 likely to get COPD. They're also more likely to get lung
10 cancer, therefore, because they've had a higher amount of
11 smoking.

12 MR. BLACKWELL: Your Honor, I move to strike the
13 answer after the words "not particularly" as not responsive.

14 THE COURT: Objection is overruled. The answer can
15 stand.

16 BY MR. BLACKWELL:

17 Q. Have you looked at the literature, Dr. Frank, to determine
18 whether or not emphysema, the fact that someone has emphysema,
19 is an independent risk factor also for developing lung cancer?

20 A. COPD includes two diseases, one of which is emphysema. So
21 I haven't looked beyond what I've just told you.

22 Q. Now, you had made a statement that I have on my note pad.
23 You were talking to Mr. McCoy about the synergy, and at the
24 time you were discussing smoking and asbestos. And you made
25 the statement that smoking and something else may also increase

1 harm. So it isn't just smoking and asbestos, but it can be
2 smoking in combination of other types of exposures that can
3 cause harm?

4 A. I did share that with the jury.

5 Q. Now, were you aware that Mr. Krik was exposed to a number
6 of other carcinogens beyond cigarettes?

7 A. Not specifically.

8 Q. Were you asked to -- well, could we first pull up -- I want
9 to show you what's been marked as Mobil's Exhibit 353. It's a
10 medical record.

11 This is a medical record that's dated March 16th,
12 2011. And do you see here where it says, "Mr. Krik reports
13 contact with the following hazardous chemicals: Asbestos,
14 benzene, coal, lead, radiation, and chemicals"?

15 A. I see that.

16 Q. Would you agree with me that, in your view, benzene is also
17 a known carcinogen?

18 A. Yes, but not for the lung.

19 Q. Would you agree with me that in your view that there's no
20 safe level of exposure to benzene?

21 A. I agree with the American Petroleum Institute that said
22 that in 1948, that as a carcinogen there was no known safe
23 level.

24 Q. Dr. Frank, I would love to get us out of here by 5:00. So
25 if you could answer yes or no if you're able to --

1 A. I would agree.

2 Q. Radiation --

3 A. Is a carcinogen.

4 Q. -- is a known cause of cancer?

5 THE COURT REPORTER: I'm sorry. One at a time,
6 please.

7 BY MR. BLACKWELL:

8 Q. Radiation, a known cause of cancer?

9 A. Yes.

10 Q. Were you asked to evaluate to what extent Mr. Krik's
11 exposure to radiation played a role in the development of lung
12 cancer?

13 A. No.

14 Q. Were you asked to evaluate to what extent his exposure to
15 any other chemicals or exposures other than asbestos and
16 cigarettes could have contributed to his lung cancer?

17 A. No.

18 Q. Were you even aware of this document?

19 A. Not that I recall seeing.

20 Q. Is this the first time you've seen it?

21 A. That I recall. It may have been in the records, but I have
22 no details beyond what's there.

23 Q. So all the records that you have in this case, everything
24 you got, you received from Mr. McCoy?

25 A. Yes.

1 Q. And as you sit here on the stand today, you don't recall
2 him showing you this record?

3 A. Listen, it was back in 2011. I don't remember of 150 pages
4 if it was there or not --

5 Q. I'm just asking if you remember it or not.

6 A. I do not remember.

7 Q. Just a couple other questions that I want to put something
8 in context for the jury about, just the nature and the volume
9 of the lungs.

10 Doctor, if you were to take a human lung and spread
11 it out on the floor, if you could imagine that, about how much
12 surface area would the lungs take up?

13 A. A huge amount, probably if you spread it out thin enough,
14 bigger than this room.

15 Q. So there is tremendous amount of reserve and capacity in
16 the lungs, true?

17 A. Yes.

18 Q. There are any number of people who live -- lead fairly --
19 fairly normal lives with one lung?

20 A. Some do; some don't.

21 Q. Pope Francis, for example, has had one lung since he was a
22 teenager. Did you know that?

23 A. Yes.

24 Q. And he had a lung removed as a teenager due to an
25 infection?

1 A. Yes.

2 Q. But the point is that the lungs do have a great deal of
3 reserve and capacity in them, and it takes a great deal of
4 insult to cause them damage?

5 A. That's probably a fair statement.

6 MR. BLACKWELL: Doctor, give me one moment. I think
7 that's going to be all I have, so just a second.

8 (Brief pause.)

9 MR. BLACKWELL: Thank you, Dr. Frank.

10 THE WITNESS: You're welcome.

11 THE COURT: Anything further from the plaintiff for
12 Dr. Frank?

13 MR. McCOY: Just a couple questions.

14 REDIRECT EXAMINATION

15 BY MR. McCOY:

16 Q. Dr. Frank, I'm going to go to this Exhibit 353 that Mobil
17 just has up here still about the asbestos, benzene, coal, lead,
18 radiation, and chemicals.

19 For someone who has worked in the Navy ships since
20 1954 or someone who has been a boilermaker or a pipefitter
21 since 1970, is there anything unusual about reporting those
22 exposures?

23 A. Not especially.

24 Q. Would it surprise you if they didn't report those
25 exposures?

1 A. If they didn't have them, it would be unusual, given the
2 nature of work of pipefitters, boilermakers.

3 Q. So those would be common exposures that someone in those
4 trades would encounter?

5 A. Yes.

6 Q. There was some testimony that you had reviewed four to five
7 hundred cases per year for attorneys; is that right?

8 A. Yes, sir.

9 Q. Okay. And I think there was testimony that you had in one
10 year generated maybe 36 reports for my firm; is that right?

11 A. Yes, sir.

12 Q. Okay. So in terms of the number of cases per year that you
13 do for lawsuit work, the four to five hundred would not be
14 anything unusual; is that right?

15 A. No, it's been the average for the last few years.

16 Q. Does that include some nonasbestos cases?

17 A. Yes.

18 Q. What other areas do you look at sometimes?

19 A. Occasionally some benzene work. From my days in Kentucky,
20 I still occasionally do a black lung case, co-workers'
21 pneumoconiosis. And then I may do some odd workers' comp
22 cases.

23 The lady who looks after the firefighters in
24 Philadelphia brings me some of her cases, and they're not
25 always asbestos.

1 Q. Would it be fair to say that there was a lot of years in
2 the last ten years where you did five or less reports for my
3 law firm?

4 A. Most of those years.

5 Q. Would be five or less?

6 A. Yes.

7 Q. Okay. The question about the data in the Markowicz study
8 being from insulators; is that right?

9 A. Yes.

10 Q. Okay. And the Selikoff-Hammond study that was done
11 earlier?

12 A. It was also insulators, the same group.

13 Q. Why is it that those have application to somebody who is a
14 pipefitter?

15 A. Because they're both trades that have a lot of exposure to
16 asbestos. There are many trades that have exposure to
17 asbestos. And while insulators may have more than others, the
18 basic principles apply to these other crafts, pipefitters,
19 boilermakers, plumbers, sheet metal workers, that would all
20 apply to them, shipyard workers.

21 Q. Based on the questions you were asked by the defense
22 counsel and the things they pointed out, is there anything that
23 changes your view that the Markowicz and Selikoff studies
24 support the synergistic effect?

25 A. No.

1 MR. MCCOY: That's all the questions I've got. Thank
2 you.

3 MR. CASMERE: No, thank you.

4 MR. BLACKWELL: Your Honor, I just want to move into
5 evidence Mobil's Exhibits 353, the medical report, and 104, the
6 Selikoff.

7 THE COURT: The Selikoff document will not be
8 admitted as a substantive piece of evidence, but the medical
9 record will be admitted.

10 (Mobil Exhibit 353 received in evidence.)

11 THE COURT: Thank you, Dr. Frank. You may step down.

12 THE WITNESS: Thank you, Your Honor.

13 (Witness excused.)

14 THE COURT: Ladies and gentlemen of the jury, we are
15 right at 5:00. I certainly very much appreciate your
16 willingness to stay until 5:00.

17 Have a good evening. We'll resume again tomorrow at
18 10:00 a.m.

19 Oh, that's right. Ms. Heckert, you have your job
20 interview that is scheduled to go until 10:30?

21 JUROR HECKERT: Correct.

22 THE COURT: So let's get started at 11:00.

23 Will that give you enough time to --

24 JUROR HECKERT: It should, yes.

25 THE COURT: So we'll start a little late tomorrow at

1 11:00 a.m. Don't discuss the case amongst yourselves or with
2 anyone. Don't try to do any research or investigate any
3 matters involving the case.

4 Have a good evening. We'll see you tomorrow at
5 11:00. Thank you. All rise.

6 (Jury out.)

7 THE COURT: Is there anything we need to take up this
8 evening?

9 MR. McCOY: Judge, it's what I mentioned before.
10 And, you know, with the testimony on causation being stricken,
11 I have to say, you know, I've got significant concerns about
12 proceeding forward with the expenditures in this case.

13 I don't know that I have an answer at this very
14 minute because we were in the midst of all kinds of things here
15 today, but I think it's something that should be decided by the
16 Court of Appeals. Whether I absolutely have to ask for some
17 sort of a certification in the case, I can't say I absolutely
18 have to now. I have to just think about that for a little bit.

19 THE COURT: Okay. Well --

20 MR. McCOY: I'm very concerned that that's the remedy
21 that we should be asking for here.

22 THE COURT: Well, what we have is an evidentiary
23 ruling by, first, Judge Lee and then later me and then in the
24 midst of trial.

25 And with respect to the in-court ruling, let me just

1 clarify, in light of the factual proffer that was made, that
2 it's not a misapprehension on my part that the -- about the
3 distinction between the cumulative exposure testimony and the
4 each-and-every-exposure testimony.

5 For testimony about cumulative exposure causing lung
6 cancer to be useful testimony for this trial, for this jury, as
7 to these defendants, it needs to be related to whether the
8 exposure at the hands of these defendants caused plaintiff's
9 lung cancer, which is what this trial is about.

10 As was clear when Judge Lee said that it is not an
11 acceptable approach for a causation expert to take, namely, to
12 draw a causation opinion as to particular defendants, including
13 hypothetical defendants in response to a hypothetical question,
14 for that causation expert to take an approach based on
15 cumulative exposure that's informed by an
16 each-and-every-exposure opinion, it remains clear to me in
17 light of the factual proffer that Dr. Frank's cumulative
18 exposure testimony is based on the each-and-every-exposure
19 theory above -- exposure meaning above background amounts and
20 that that testimony is based on each and every exposure being a
21 substantial factor.

22 And just as Dr. Frank, to his credit, cannot
23 disaggregate exposures as a matter of science, cumulative
24 exposure opinion cannot be disaggregated from the
25 each-and-every-exposure opinion as a matter of evidence under

1 Rule 702, and now that I've heard the proffer, under Rule 403.
2 The risk that that answer to the hypothetical relying on the
3 cumulative exposure opinion would be considered as evidence of
4 a particular causation as to these defendants would, in fact,
5 in my view, be unfair and confusing given the weakness of the
6 probative value of the opinion when it's informed, as it is, by
7 the each-and-every-exposure principle.

8 And the goal under 702 is to be a gatekeeper. And
9 once the parameters are set by that rule, Rule 403 still has a
10 role to play in precluding testimony that would be confusing or
11 unfairly prejudicial in a way that outweighs the probative
12 value.

13 So for those reasons, I've ruled that the proffered
14 testimony is not admissible in the context of this particular
15 trial.

16 Now, whether that kind of evidentiary ruling ought to
17 be certified for a mid-trial interlocutory appeal, the answer
18 to that question, in my view, is quite clearly no. It is not a
19 case-dispositive ruling. It is an evidentiary ruling that, if
20 erroneous, would be taken up in the context of an appeal on
21 final judgment. It is not a case-dispositive ruling that has
22 the likelihood of resolving this case in an expeditious manner.

23 Mr. McCoy earlier made the point that this is a long
24 trial. It's not that long of a trial. It's two weeks. It is
25 not the case that there is a dearth of evidence about

1 causation. There is evidence that's in the case, even from
2 Dr. Frank himself, about asbestos, about exposures, about how
3 exposure has been reported to cause cancer. So it's not the
4 case that that -- though my ruling is dispositive of the issues
5 in the trial.

6 The other alternative, as I imagine it would be,
7 would be a mandamus petition, which is up to the plaintiff. If
8 the plaintiff wants to petition the Court of Appeals for a writ
9 of mandamus, that's an option that the plaintiff has. But I am
10 not staying this trial for that.

11 And I would also note that Judge Lee's opinion has
12 been the ruling that's been operative for quite some time now.
13 My pretrial rulings have been the operative rulings for some
14 time now. And if there were other appellate options that the
15 plaintiffs wanted to pursue, they had the opportunity to do so
16 earlier.

17 Where we are in the trial at this point is simply
18 that I've made evidentiary rulings and that I've accepted
19 factual proffers. I've evaluated them. I've looked at the
20 Daubert rulings many, many times now, and I have exercised my
21 discretion, as I feel I am obligated to do, and I've issued the
22 rulings that I've issued.

23 So that's where we are with that. People have their
24 options, and they are what they are.

25 MR. CASMERE: If the plaintiff wants to consent to a

1 directed evidence, Owens-Illinois would accept that --

2 THE COURT REPORTER: I'm sorry.

3 MR. CASMERE: If the plaintiff wants to consent to a
4 directed verdict for Owens-Illinois, we would accept that and
5 consent to that, and then he can appeal it.

6 MR. MORRIS: Your Honor, one perspective --
7 additional perspective on that, Bob -- and I'm not trying to
8 talk you into this at all -- but you mentioned the amount of
9 days that could be wasted.

10 If it is true, as we believe it would be, that
11 Dr. Burhani will not deviate from her evidence deposition and
12 say that asbestos caused this man's disease, which she did not
13 say, and we can argue about what's in the record, but I think
14 the record as it stands would still say, Your Honor, that under
15 the *Korte versus Exxon* case, the plaintiff is still required to
16 have expert testimony.

17 And I guess what our approach would be is to say, you
18 know, the Court commented on the literature that he commented
19 on. But, of course, the literature that he commented on can't
20 be substantive evidence. So that in and of itself cannot --

21 THE COURT: But his testimony about the literature
22 can be considered.

23 MR. MORRIS: I think you would need to comb that
24 record to see whether he gave an opinion based on that
25 literature or whether he merely recited that the literature

1 said it. If it's the latter, I don't think it's in play for
2 those purposes. If it's the former, it may be, depending upon
3 whether it was an opinion. Not just that asbestos generally
4 has been shown to cause those things, which tells us nothing
5 and doesn't inform the law on this.

6 It would have to be that in some respect these
7 defendants, either separately or maybe combined, were a
8 substantial factor in causing the injury.

9 So if you don't have Frank and you don't have Burhani
10 and the law says you need an expert and all you are is an oath
11 helper with literature, maybe, maybe we could get to the issue
12 of deciding that a directed verdict is the way to go.

13 But, Bob, believe me, I'm not trying to push that if
14 it's not something you don't want to hear.

15 MR. McCOY: Well, I'm not going to take the position
16 on whether any of the defense statements are right or wrong.

17 THE COURT: Right.

18 MR. McCOY: Or whether Your Honor's statement is
19 right or wrong.

20 THE COURT: That is certainly a careful approach at
21 this point.

22 MR. McCOY: I would say this. You know, I've had two
23 cases in my life where on motions *in limine* things have gotten
24 knocked out, and we've taken appeals, so -- but I don't
25 remember one specific to this kind of situation. That's why

1 it's hard for me to say one way or the other exactly what's the
2 right thing to do for my client. That's what I'm concerned
3 about, my client, Mr. Krik.

4 (Discussion off the record.)

5 MR. MCCOY: I hear him breathing back there. I was
6 trying to say he can leave the courtroom.

7 But it did happen to me twice before. I've taken two
8 appeals, stipulated to entry of judgment, whatever you want to
9 call it, based on a particular ruling, and then had that go up.

10 THE COURT: Sure. And that option was not what I
11 thought was being asked.

12 I thought what was being asked was an interlocutory
13 appeal under 1292, and that was the basis for my earlier
14 comments.

15 MR. MCCOY: Right. And that's why I was listening to
16 Your Honor's thought about it, the defense attorneys about it.
17 So like I say, I don't have enough knowledge on experts with
18 particular reference, I think, to what Mr. Morris was saying
19 about the issues about -- you know, he's saying now we need
20 expert testimony or I might take that position. That's really
21 one of my concerns down the road, is when we get to the jury,
22 what will happen. Will people say, "Well, Dr. Frank
23 couldn't -- plaintiff had nobody who said causation"?

24 And that's my concern. If that argument is made,
25 then that's what I'm most worried about.

1 Secondly, I'm worried about just not having somebody
2 who tells the jury in his opinion it's causation, because
3 oftentimes jurors expect that, whether it's required or not
4 required, which I think is what Your Honor is saying. It may
5 not be required that somebody says that. That's why it's not
6 dispositive, in your view.

7 So -- but jurors certainly look for that, and they
8 saw what happened. I mean, the opinions were not allowed. Why
9 were they not allowed? Well, they can go back there and
10 speculate on all kinds of things, because it might be because
11 Your Honor thought that the evidence didn't support that, so --
12 or they might think that it wasn't allowed because a witness
13 was not qualified. There's all kinds of reasons why they're
14 going to speculate about what happened.

15 So, I mean, that's -- I'm just laying out for you why
16 I don't have --

17 THE COURT: No, right. Look, there is no --

18 MR. McCOY: -- why I don't have an immediate course
19 of action.

20 THE COURT: There's no reason for you to have an
21 immediate course of action at this very moment.

22 And there's also no doubt that the plaintiff's case
23 was impacted by Judge Lee's opinion many months ago and the
24 subsequent history of the case.

25 What I've got before me is making the rulings that

1 get teed up for ruling, and I've endeavored to give those
2 rulings.

3 We have some time to consider what you want to do
4 since we're not starting until 11:00 a.m. tomorrow with the
5 jury. You should consider what your options are. If the
6 parties want to discuss amongst themselves issues, they are
7 certainly free to do so. There's nothing -- other than what I
8 had taken to be a request for an immediate certification under
9 1292, which I think is not quite the request that was made, but
10 that's what I thought it was -- that request is denied for the
11 reasons I've earlier stated. I have no other pending request
12 before me. And you should consider what your options are, and
13 we can move forward.

14 On my end, I will be here ready to resume the trial
15 tomorrow morning.

16 MR. MCCOY: And the other things, I mean, I'm
17 concerned with is that I believe, you know, Judge Lee's ruling
18 has been expanded, and I don't necessarily agree from the start
19 with Judge Lee's ruling. Well, all these issues are preserved
20 to go up on what could be an appeal.

21 I think the only question I have for my client is
22 should I attempt to do that -- to do that now. And I don't
23 want to waste anybody's time, is what I'm saying. I don't want
24 to play around with this.

25 THE COURT: Okay.

1 MR. McCOY: So I'm going to think about this with the
2 others at my office, and I may send an email or two to the
3 defense attorneys on it. But, of course, the difficulty is
4 trying to do it in the middle of a trial with another witness
5 coming tomorrow. But you're right, there's a little more time.

6 THE COURT: There is a little bit more time. And who
7 is our next witness?

8 MR. McCOY: The next witness would be Frank Parker,
9 who is our industrial hygienist. So I didn't hear any
10 limitations about him other than the every-exposure ruling from
11 Judge Lee, which again --

12 THE COURT: Right. As I recall, he was less a
13 causation person than a --

14 MR. CASMERE: He is not a causation person.

15 THE COURT: -- an exposure person.

16 So he is somebody who can talk about what the type of
17 work entails and how that might generate exposure.

18 MR. MORRIS: Except at Mobil, pursuant to the Court's
19 ruling.

20 THE COURT: Right.

21 MR. CASMERE: And within the confines of his
22 disclosure.

23 THE COURT: Fair enough.

24 MR. McCOY: What was the ruling on except at Mobil?

25 MR. MORRIS: He couldn't testify about Mobil.

1 MR. MCCOY: Specifically?

2 MR. MORRIS: Right.

3 THE COURT: Correct.

4 MR. MORRIS: Or asbestos content at Mobil.

5 THE COURT: Right. He was not a properly disclosed
6 fact witness with respect to Mobil.

7 MR. MORRIS: And so that we're clear, we'll have a
8 little bit of that same line that we're navigating today, which
9 is, what is the relevance of general testimony about steel
10 mills and other locations and presumably perhaps even slinking
11 into other refineries used as, as you said, at a high level for
12 an indicator of what the jury ought to think about Mobil.

13 And the closer it gets to that lower level and the M
14 word, the closer the significant prejudice to us will be. So I
15 expect we'll have a lot of the same sorts of questions that we
16 saw today, and we'll just try to have to navigate around them.

17 I'm, again, expressing my concern that we do look a
18 little like popinjays having to keep getting up. And I think
19 the jury is a little bit irritated at the defense for objecting
20 to this stuff.

21 MR. CASMERE: He -- I believe Mr. Parker's opinions
22 are general in terms of insulation, cement. Not Kaylo, not
23 defendant specific.

24 MR. MCCOY: Well, he certainly filed an affidavit,
25 summary judgment with Judge Robreno about Mobil. I mean, that

1 was part of the summary judgment.

2 THE COURT: Well, we're not going backwards. You
3 know, we've got the ruling on Mr. Parker. Everyone, including
4 myself, will go back and remind ourselves of the parameters.

5 MR. BLACKWELL: But, Judge Shah, is there any kind of
6 admonition that can be given? Because it's difficult and just
7 a tad bit frustrating when we do have to continue to get up.
8 And oftentimes issues they're raising are not new. It's the
9 same thing again and again.

10 And I don't -- I'm not sure what Your Honor can do.
11 But is there something Your Honor can do?

12 THE COURT: What I can do in our -- given our current
13 posture is make sure that we convene tomorrow no later than,
14 say, 10:45 or let's say 10:45, and we can talk more
15 specifically about Mr. Parker and what is fair game, what is
16 not fair game, without the pressure of the jury sitting in the
17 box and being concerned about jury time.

18 And if I could give you some more rules of the road
19 before Mr. Parker hits the stand, then I will endeavor to do
20 that.

21 Anything else?

22 MR. CASMERE: No, Your Honor.

23 THE COURT: Our 48-hour exhibit rule is still in
24 place, and I have not heard of any issues. So I'm not
25 expecting any exhibit issues tomorrow.

1 MR. MORRIS: I think after Mr. Parker, Bob said that
2 there were two Mobil depositions that he wanted to read. So if
3 that's true, we'll have readers here. Parker is not going to
4 take up the whole day, I can't imagine.

5 MR. McCOY: No, it shouldn't take up any -- should
6 take up less time than Dr. Frank.

7 MR. MORRIS: So does that sound like a plan, Bob?

8 MR. McCOY: Yeah, I mean, that's what I think we
9 said.

10 MR. MORRIS: And not --

11 MR. McCOY: That's the plan. We agreed on that
12 already.

13 MR. MORRIS: And not someone else, too?

14 MR. McCOY: Talking about another?

15 MR. MORRIS: That will be plenty for tomorrow, in
16 other words?

17 MR. McCOY: Yeah, I'm sure that will pretty much
18 occupy the day, I think, yeah.

19 THE COURT: Okay. Thank you. Then we are adjourned.

20 (Adjournment of proceedings until 4/22/15 at
21 10:45 a.m.)

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25

1 C E R T I F I C A T E

2 We, Colette M. Kuemmeth and Nancy L. Bistany, do
3 hereby certify that the foregoing is a complete, true, and
4 accurate transcript of the Trial proceedings, Volume 2, had in
5 the above-entitled case before the HONORABLE MANISH S. SHAH,
6 one of the Judges of said Court, at Chicago, Illinois, on
7 April 21, 2015.

8

9 /s/ Colette M. Kuemmeth, CSR, RMR, FCRR 04/21/15

10

11 /s/ Nancy L. Bistany, CSR, RPR, FCRR 04/21/15

12 Official Court Reporters
13 United States District Court
14 Northern District of Illinois
15 Eastern Division

16 Date

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